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Education




- 2006  **Ph.D. Biomedical Statistics**, University of Milano
Thesis: *Haplotype Block Partitioning as a tool for Dimensionality Reduction in Complex Disease Modeling*. Advisor: *G. Parmigiani* (Johns Hopkins University)
- 2001  **2nd Level M.Sc. Medical Statistics & Clinical Epidemiology**, University of Verona
Thesis: *Geographical distribution of asthma across Italy*. Advisor: *R. de Marco*
- 1999  **M.Sc. Statistical & Economical Sciences**, University of Padova
Thesis: *Statistical analysis and modelization of meteorological data*. Advisors: *S Bordignon, C Gaetan*

Positions





As research scientist

- 2013 – ...  **Research Group leader**, Biostatistics & Epidemiology, Eurac Research, Institute for Biomedicine, Bolzano
- 2006 – ...  **Senior Researcher**, Biostatistics & Epidemiology, Eurac Research, Institute for Biomedicine, Bolzano
- 2004 – 05  **Visiting scholar**, Johns Hopkins University, School of Public Health & Sidney Kimmel Comprehensive Cancer Center, Baltimore MD
- 2000 – 06  **Research fellow**, University of Verona, Department of Medicine & Public Health, Unit of Epidemiology & Medical Statistics

As academic teacher

- 2021 – ...  **Lecturer**, *Genetic Epidemiology* (Statistica, SECS-S/01), II level master degree on "Omics data analysis", University of Padova.
- 2013 – 20  **Adjunct Professor**, *Medical Genetics*, San Raffaele Hospital University, Milano (*Professore a contratto*, Genetica Medica 06/A1)
- 2001 – 03  **Adjunct Professor**, *Computer Science*, University of Verona (*Professore a contratto*)

Qualifications (national scientific habilitations)

- Full Professor  **Medical Statistics** (validity: Apr 26, 2021 - Apr 26, 2033)
-  **Medical Genetics** (validity: Oct 19, 2018 - Oct 19, 2030)
-  **Genetics** (validity: Mar 7, 2025 - Mar 7, 2037)
- Associate Professor  **Endocrinology, Nephrology, Science of Nutrition and Wellness** (validity: Sep 21, 2018 - Sep 21, 2030)

Visiting

- 2010 ■ **Harvard University**, Dept. of Biostatistics & Computational Biology, Dana-Farber Cancer Institute, Boston MA, USA (Prof. *G. Parmigiani*); Dept. of Biostatistics, School of Public Health, (Prof. *F. Dominici*)
- 2008 ■ **Johns Hopkins School of Public Health**, Dept. of Biostatistics, Baltimore MD, USA; (Prof. *G. Parmigiani & I. Ruczinski*)
- 2006 ■ **Erasmus University Medical Center**, Dept. of Epidemiology & Biostatistics, Rotterdam, The Netherlands (Prof. *C.M. van Duijn & Y. Aulchenko*)
- 2004 ■ **Helmholtz Zentrum** - National Research Centre for Environment & Health, Inst. of Epidemiology, Munich, Germany (Prof. *M. Wjst & J. Heinrich*)
- 1998-99 ■ **ARPAV** - Regional Agency for the Environment, Meteorological Center of Teolo, Padova, Italy Academic research, teaching, training, consultation, \LaTeX typesetting and publishing.

Awards

- 2009 ■ **Travel Fellowship**, 5th Int'l Course on Genetics & Renal Diseases, IRCCS Gaslini, Genova
- 2005 ■ **PhD research program in foreign countries award**, University of Verona
- 2004 ■ **Travel fellowship** by the *European Community Respiratory Health Survey*, German Research Center for Environmental Health

Grants

As principal or partner investigator (1.8 million €)

- 2021 – 24 ■ **Dietary risk factors in chronic kidney diseases and the mediating role of human metabolome** - 5th Eurac Research Head Office Call for PhD program funding; **PI**
- 2020 – 24 ■ **TrainCKDis: Multidisciplinary Training in Chronic Kidney Disease: from genetic modifiers to drug discovery** - Horizon 2020 Research & Innovation Framework Programme H2020-MSCA-ITN-2019/MSCA-ITN-ETN:LIF - Proposal no. 860977; **partner**
- 2020 – 22 ■ **CHRIS-2D: a Dynamic Data infrastructure for biomedical research and innovation in South Tyrol** - European Regional Development Fund (FESR) 2014-2020 - Axis 1, Research & Innovation 5th call - Auton. Prov. Bolzano, Decree no. 17751/2020 - Proposal no. FESR1157; **PI**
- **Molecular profiling of uncontrolled and treatment resistant hypertension in the general population: the HyperProfile study** - Auton. Prov. Bolzano - Call: Research Südtirol/Alto Adige 2019, Decree no. 12851/2020, CUP D52F19000130003; **PI**
- 2020 – 21 ■ **PACE: Partnership to Accelerate Covid-19 rEsearch in South Tyrol** - Autonomous Province of Bolzano, Decree no. 14512/2020, CUP D52F20000770003; **PI**
- 2015 – 16 ■ **Tailoring Rituximab treatment in ANCA-associated vasculitis: a genetic and immunological approach** - Regione Emilia Romagna: "*Alessandro Liberati*" Young Investigator Grant 2013; **subcontractor**

As host or supervisor of mobility fellows (0.5 million €)

- 2026 – 28 ■ **Multi-ancestry fine-mapping of whole-genome sequencing studies via Low-Dimensional Linkage Disequilibrium analysis** - Seal of Excellence 2025, Auton. Prov. Bolzano, Decree 358750/25, CUP D55F20002350003. Incoming researcher: Dr Nadia Alipour
- 3-11/2026 ■ **Building a framework for Causal Prediction Modelling based on High-Dimensional biomedical data** - Call for international mobility of researchers 2024, Autonomous Province of Bolzano, Decree 14978/24 - Incoming researcher: Prof Mousumi Banerjee

Grants (continued)

- 1-12/2025 **Metabolomic Evaluation of Diet Influence on Cardiometabolic health by Reproductive stage** - Call for international mobility of researchers 2024, Autonomous Province of Bolzano, Decree 14978/24 - Outgoing researcher: Dr Giulia Barbieri
- 2021 – 23 **Multi-Marker Modeling to identify genes directly relevant to kidney function** - Seal of Excellence 2021, Autonomous Province of Bolzano, Decree 5812/21, CUP D55F20002350003 - Incoming researcher: Dr Ryosuke Fujii

Additional research projects




Principal investigator

- 2016 – ... **Chronic Kidney Disease Genetics (CKDGen) Consortium** on the genetic epidemiology on kidney function (N>800,000, >100 studies) (with *A Köttgen*, Univ. of Freiburg)
- 2011 – ... **Cooperative Health Research In South Tyrol (CHRIS) study**: population-based study on genetic & environmental epidemiology of cardiovascular, metabolic & neurological health
- 2020 – ... **CHRIS COVID-19**: Longitudinal study to investigate the genetic, molecular and environmental determinants of SARS-CoV-2 infection and antibody persistence in Val Venosta






Collaborator

- 2006 – ... **The Microisolates in South Tyrol (MICROS) study**, assessing the genetics of Mendelian & common diseases in three isolated villages of South Tyrol
- 2020 – 23 **The Val Gardena Study** on SARS-CoV-2 infection assessing distribution and determinants of SARS-CoV-2 infections in the Gardena valley
- 2014 – 17 **Exposure to chlorpyrifos in South Tyrol**: biological monitoring of 3,5,6-trichlor-2-pyridinol in the general population
- 2009 – 15 **Chronic Kidney Disease Genetics (CKDGen) Consortium**, member of the *steering committee & analyst group*
- 2007 – 11 **European Special Population Network (EUROSPAN)**, on isolated population studies to identify genetic variants involved in health and disease
- 2007 – 07 **Ospedale Regionale di Peja/Pec: assistenza tecnica, riqualificazione e formazione professionale in ambito clinico, tecnico e manageriale**, Regione Veneto, Azienda Ospedaliera di Padova, Struttura Interaziendale di Formazione e Progetti Internazionali (no. 7347.02.3)
- 2002 – 06 **Phase III Randomized Clinical Trial Gemcitabine vs Gemcitabine+Vindesine in Elderly Lung Cancer Patient** (N=360)
- 2001 – 02 **The EUREYE study** to assess the causes of visual disability due to macular degeneration in the elderly (N 10,000, 7 countries)
- 2000 – 06 **European Community Respiratory Health Survey**, longitudinal population-based study on the distribution of asthma and atopy (N=140,000, 25 countries)
- Italian Study on Asthma in Young Adults**, population-based study on the distribution, treatment & economic impact of asthma, allergic rhinitis & chronic bronchitis (N=27,000, 9 centres)
- 2000 – 02 **"Verona ipovision study"**, Univ. of Verona, Department of Public Health, Unit of Epidemiology & Medical Statistics

Publications & Scientific production





- Articles  **139** peer-reviewed original articles (**45** as first, last, or corresponding author); topics: *genetic epidemiology; biostatistics; epidemiology; bioinformatics; nephrology*
10 among reviews, commentaries & editorials
see [Europe PMC](#); full list at **pages 8-26**
- Conferences  **>70** congress presentations, including invited oral communications, contributed oral & poster presentations (considering only first or last authorships); full list at **pages 27-32**
- Seminars  Several invited seminars & lectures at national and international courses, symposia & meetings; full list at **pages 32-34**

Released software

- Haplomics**  (2025) Snakemake pipeline for multiomics haplotype association analyses
<https://github.com/dariushghasemi/haplomics>, led by Dariush Ghasemi-Semeskandeh
- LDEplorer**  (2013) Fast whole-genome haplotype-block recognition
github.com/cran/LDEplorer, led by Daniel Taliun
- nephro**  (2013) Biomarker-based kidney function estimation
cran.r-project.org/web/packages/nephro/
- GWAtoolbox**  (2012) Fast quality control & handling of multiple genome-wide association study data files; github.com/cran/GWAtoolbox, with Christian Fuchsberger & Daniel Taliun
- MATILDE**  (2008) Linkage disequilibrium block identification
bcb.dfci.harvard.edu/gp/software/matilde/

Scientific service

Committees

- 2024 – ...  **KidneyGenAfrica** consortium - *Member of the **Training Committee***
- 2023 – ...  **GENOCORDIA** clinical trial (<https://clinicaltrials.gov/study/NCT06586203>)
*Member of the **International Scientific Advisory Committee***
- 2021 – ...  *Member of the Joint South Tyrolean Health System & Paracelsus Medizinische Privatuniversität Salzburg **Research Fund Allocation board** for the development of biomedical research in South Tyrol*
- 2023  **Chairman** of the selection board for open competition for statistical inspector (South Tyrolean Healthcare System, Bolzano, 2023)



Editorial board membership

- 2020 – ...  **Kidney International**
- 2014 – ...  **Journal of Nephrology**

Reviewer




- Funding bodies  Dunhill Medical Trust (2024); European Research Council (2022); French National Research Agency (2016); Health Research Council of New Zealand (2018; 2019; 2021; 2025); KidneyResearchUK (2021; 2023); Ireland Health Research Board (HRB) (2019); Istituto Zooprofilattico Sperimentale delle Venezie (IZSve) (2013); MRC Career Development Award Panel (2021)

Scientific service (continued)

- Scientific journals  Allergy; American Heart Journal; American Journal of Human Genetics; American Journal of Kidney Diseases; Annals of Gerontology and Geriatric Research; Atherosclerosis; Bioinformatics; Biometrical Journal; BMC Genetics; BMC Genomics; BMC Medical Genomics; BMJ Open; Brazilian Journal of Medical and Biological Research; Clinical Journal of the American Society of Nephrology; Circulation: Genomic and Precision Medicine; Communications Biology; Diabetes/Metabolism Research and Reviews; Diabetologia; Epidemiology; European Journal of Human Genetics; GigaScience; Human Molecular Genetics; IEEE/ACM Transactions on Computational Biology and Bioinformatics; International Journal of Cardiology; International Journal of Computational Intelligence in Bioinformatics and Systems Biology; International Journal of Nephrology and Renovascular Disease; Journal of Environmental Research and Public Health; Journal of Nephrology; Journal of the American Society of Nephrology; Journal of Translational Medicine; Kidney International; Nature; Nature Communications; Nature Genetics; Nature Reviews Nephrology; Nephrology Dialysis Transplantation; Pediatrics; PLoS Genetics; PLoS Medicine; PLoS ONE; Science; The Lancet
- Congresses  World Congress of Nephrology

Teaching management

Courses organization







- 2021 – ...  **Coordinator**, teaching unit "Genomics and Epigenomics" within the **II level master on "Omics Data Analysis"**, University of Padova, online, academic years 2021-2; 2022-3; 2023-4; 2024-5; 2025-6 www.dctv.unipd.it/didattica/master-ii-livello/analisi-di-dati-omici
- 2021  **Director**, Summer School **Genetic Epidemiology of Kidney Function and Chronic Kidney Disease**, Bolzano, 12-16 Jul 2021 geniticepisummerschool.eurac.edu/ - *This was the first international summer school on the genetic epidemiology of kidney function and disease; it lasted 5 full days and involved 15 int'l teachers and 30 int'l students*
- 2017  **Director**, Course **Population-based studies and biobanks in the -omics era**, within the HOROS PhD Programme by Medical University Innsbruck; Eurac Research Institute for Biomedicine, Bolzano, Nov 30 - Dec 1, 2017

Member of National & International PhD programmes



- 2024 – ...  **PhD School of Life & Health Sciences Stakeholder Committee**, University of Verona
- 2021 – 25  **PhD School of Life and Health Sciences** University of Verona ([decree](#))
- 2015 – 21  **Bozen-Innsbruck Doctoral Programme (BI-DOC)** Medical University Innsbruck & Eurac Research Institute for Biomedicine

Students and postdocs





Post-Doctoral Fellows

- 2026-...  *Nadia Alipour*, genomic fine-mapping methods
- 2025-25  *Giulia Barbieri*, diet and metabolic health by reproductive stage
- 2021-23  *Ryosuke Fujii*, Structural equation modeling in genomics (now at Fujita Health University)
-  *Laura Barin*, Dynamic data infrastructures (now at Trento University)
-  *Maeregu W Arisido*, Statistical modelling of hypertension biomarkers (now at Human Technopole)
- 2019-20  *Athina Raftopoulou*, Neuroepidemiology (now at Patras University)






Students and postdocs (continued)

- 2018-20  *Vladimir Vukovic*, Phenotype reclassification in population-based studies (now at the Vojvodina Institute of Public Health)
- 2011-13  *Aude Saint-Pierre*, SNP-based linkage analysis in large pedigrees (now at Inserm U1078, Brest)

Ph.D. & M.D. students

- PhD in 2026  *Dariush Ghasemi-Semeskandeh*, Leiden University Medical Center; "*Multiomic characterization of kidney function genetic loci*"
- PhD in 2025  *Giulia Barbieri*, University of Verona; "*Multiomic assessment of dietary effects on kidney function*"
- PhD in 2021  *Damia Noce*, Medical University Innsbruck HOROS PhD Program; "*Genetic epidemiology of complement activation*" (now at Alira Health)
- PhD in 2014  *Daniel Taliun*, Free University of Bolzano, PhD School in Computer Science; "*Efficient algorithms for genome-wide SNP clustering*" (now at McGill University)

Undergraduate fellows

- 2021 – 22  *Daniele Giardiello*, COVID-19 prediction modeling
- 2021 – 21  *Giulia Barbieri*, COVID-19 data modeling & causal inference
- 2016 – 18  *Federico Murgia*, genetic epidemiology of complex traits
- 2013 – 15  *Damia Noce*, data quality control in population studies with relatedness
- 2013 –14  *Francesca Pagani*, genotype-phenotype relations in population studies

Other supervision

Visiting students

- 2024 *Eleonora Del Fiore*, Inserm, Paris, secondment, EU-funded MSCA-ITN TrainCKDis project
- 2023 *Dianne Acoba*, AstraZeneca R&D Gothenburg; secondment, EU-funded MSCA-ITN TrainCKDis project
- 2012 *Stefano Nembrini*, University of Milano Bicocca; genomic prediction models
- 2007 *David Gritsch*, Summer Internship, University of Vienna, Faculty of Medicine; review of kidney function genetic loci
- 2007 *Harald Wieser*, Eurac Summer Internship, questionnaires in epidemiological studies

Students supervised as external member of doctoral committees

- 2024 – ... *Hannah-Cathrin de Hesselle*, Regensburg International Graduate School of Life Sciences
- 2022 – 25 *Federica Santonastaso*, PhD program in Computational Biology, European School of Molecular Medicine (SEMM), Human Technopole Milan
- 2012 – 13 *Stefano Nembrini*, PhD School in Statistics, University of Milano Bicocca

M.D. specialty thesis advisor

- 2009 *Gerald Stifter*, University of Padova, School of Specialization in Nephrology; "*Glomerular filtration rate estimation methods*" (now at Bruneck Hospital)

B.Sc. specialty thesis advisor

- 2021 *Sofia Chemolli*, University of Padova, Faculty of Statistical Sciences; "*Linear and robust regression models for the study of glomerular filtration rate*" (Academic advisor: L Ventura)

II level M.Sc. course "Omics data analysis" final project work tutor

2025 *Giulia Giordano*
2024 *Valentina Corradi, Maria Teresa Avella*
2023 *Giulia Erini, Luigina Micolucci*
2022 *Alessia Frigo*

Thesis committees




Ph.D.'s

2024 *Siqi Wang*, University Medical Center Groningen; Subject: *Genetic epidemiology* (Academic supervisor: H Snieder)
2024 *Silvia Di Maio*, Medical University of Innsbruck; Subject: *Genetic epidemiology* (Academic supervisor: F Kronenberg)

M.Sc.'s

2024 *Hannah C de Hesselle*, University of Regensburg; Subject: *Genetic epidemiology* (Academic supervisor: T Winkler)

External consultancy

2023 – 24  Quotient Therapeutics
2002 – 03  Neurologic Clinic, University of Brescia, Spedali Civili Brescia
2001 – 02  Department of Clinical & Experimental Medicine, University of Verona

Research Publications

PREPRINTS

* indicates joint authorship/oversight

4. De Graeve M, Hantikainen E, Louail P, Verri Hernandez V, **Pattaro C**, Domingues FS, Pramstaller PP, Tilg H, Ralser M, Grander C, Rainer J. [Molecular characterization of liver steatosis through circulating proteins, metabolites and lipids](#) *medRxiv* 2025 DOI: 10.64898/2025.12.01.25341334
3. Ghasemi-Semeskandeh D, Foco L, Fujii R, Rainer J, Mohadeseh F, Ralser M, Domingues FS, Pramstaller PP, **Pattaro C**. [Haplomics: A Snakemake pipeline for haplotype-based association analysis in multi-omics studies](#) *medRxiv* 2025 doi: 10.1101/2025.06.12.25329492
2. Barbieri G, Garcia-Larsen V, Lundin R, Fujii R, Ferraro PM, Gambaro G, Melotti R, Gögele M, Cazzoletti L, Pramstaller PP, Zanolin ME, **Pattaro C**, Hantikainen E. [DASH diet, Reduced Rank Regression Dietary Patterns and relations with kidney function in the CHRIS general population study](#). *medRxiv*; 2024. DOI: 10.1101/2024.07.18.24310620.
1. Landini A, Ghasemi-Semeskandeh D, Johansson Å, Ahmad S, Liebisch G, Gnewuch C, Regeneron Genetics Center, Tzoneva G, Shuldiner AR, Hicks AA, Pramstaller P, **Pattaro C**, Campbell H, Polašek O, Pirastu N, Hayward C, Ghanbari M, Gyllensten U, Fuchsberger C, Wilson JF, Klarić L. [Genome-wide association study reveals loci with sex-specific effects on plasma bile acids](#). *medRxiv* 2022; doi: 10.1101/2022.12.16.22283452

JOURNAL ARTICLES

Original and Peer-reviewed; * = joint authorship/oversight; ^c = corresponding

140. Kamiza AB, Chikowore T, Chen G, Ojewunmi O, Machipisa T, Zhou F, Mayanja R, Toure S, Soremekun O, Kintu C, Nakabuye M, Koprulu M, Kalungi A, Kalyesubula R, Salako B, Nashiru O, Corpas M, Robinson-Cohen C, Franceschini N, **Pattaro C**, Köttgen A, Nitsch D, Langenberg C, Tcheandjieu C, Nyirenda M, Morris AP, Asimit J, Zeggini E, Rotimi C, Ramsay M, Adeyemo A, Fabian J, Crampin AC, Brandenburg JT, Fatumo S. [KidneyGenAfrica multi-cohort Genome-wide association study and polygenic prediction of kidney function in 110,000 Africans](#). *Nat Commun*; 2026. doi: 10.1038/s41467-026-69367-3.
139. Imtiaz MA, Melas K, Tin A, Talevi V, Chen H, Fornage M, Shrestha S, Gögele M, Emmert D, **Pattaro C**, Pramstaller P, Förster F, Horn K, Mosley TH, Fuchsberger C, Scholz M, Breteler MMB, Aziz NA. [Genome-wide association study meta-analysis uncovers novel genetic variants associated with olfactory dysfunction](#), *BMC Genom Data* 2025; **26**(1):64; doi: 10.1186/s12863-025-01360-z
138. Foco L, De Bortoli M, Del Greco M F, Frommelt L, Volani C, Riekschnitz D, Motta B, Fuchsberger C, Delerue T, Völker U, Huan TX, Gögele M, Winkelmann J, Dörr M, Levy D, Waldenberger M, Teumer A, Pramstaller PP, Rossini A*, **Pattaro C***. [Genomic and molecular evidence that the lncRNA DSP-AS1 modulates Desmoplakin expression](#) *Hum Genet* 2025, ahead of print
137. Smit RAJ, *482 authors*, **Pattaro C**, *148 authors*, Loos RJF. [Polygenic prediction of body mass index and obesity through the life course and across ancestries](#). *Nat Med* 2025; DOI: 10.1038/s41591-025-03827-z
136. Förster F, Emmert D, Horn K, Pott J, Frasnelli J, Imtiaz MA, Melas K, Talevi V, Chen H, Engel C, Filosi M, Fornage M, Gögele M, Loeffler M, Mosley T, **Pattaro C**, Pramstaller P, Shrestha S, Aziz NA, Breteler M, Wirkner K, Scholz M, Fuchsberger C. [Genome-wide association meta-analysis of human olfactory identification discovers sex-specific and sex-differential genetic variants](#). *Nat Commun* 2025; **16**:5434; DOI: 10.1038/s41467-025-61330-y
135. Lundin R, Melotti R, Barin L, Gögele M, Lombardo S, Fanolla A, Zuech P, Rainer J, Emmert D, Fuchsberger C, Mascalzone D, de Grandi A, Domingues FS, Hicks AA, Pramstaller PP*, **Pattaro C***. [Cohort profile: The Cooperative Health Research in South Tyrol \(CHRIS\) study](#). *Int J Epidemiol* 2025; **54**(3):dyaf064. doi:10.1093/ije/dyaf064
134. Ghasemi-Semeskandeh D, Emmert D, Koenig E, Foco L, Gögele M, Barin L, Fujii R, Fuchsberger C, Peters DJM, Pramstaller PP, **Pattaro C**. [Systematic mediation and interaction analyses of kidney](#)

- function genetic loci in a general population study. *PLoS ONE* 2025; **20**(6):e0323057. doi: 10.1371/journal.pone.0323057.
133. Ghasemi-Semeskandeh D, König E, Foco L, Dordevic N, Gögele M, Rainer J, Ralser M, Acoba D, Domingues FS, Peters DJM, Pramstaller PP, **Pattaro C** [Clinical and metabolic signatures of FAM47E-SHROOM3 haplotypes in a general population sample](#). *Kidney Int Rep* 2025; **10**(5): 1495-1508; DOI: 10.1016/j.ekir.2025.02.018
 132. Barbieri G, Cazzoletti L, Melotti R, Hantikainen E, Lundin R, Barin L, Gögele M, Riegler P, Ferraro PM, Pramstaller PP, Gambaro G, Zanolin ME*, **Pattaro C***. [Development and evaluation of a kidney health questionnaire and estimates of chronic kidney disease prevalence in the Cooperative Health Research In South Tyrol \(CHRIS\) study](#). *J Nephrol* 2025; **38**(2): 521-530; DOI 10.1007/s40620-024-02157-6
 131. Allara E, Bell S, Smith R, Keene SJ, Gill D, Gaziano L, Morselli Gysi D, Wang F, Tragante V, Mason A, Karthikeyan S, Lumbers RT, Bonglack E, Ouwehand W, Roberts DJ, Dowsett J, Ostrowski SR, Larsen MH, Ullum H, Pedersen OB, Brunak S, Banasik K, Erikstrup C, DBDS Genomic Consortium, Mitchell J, Fuchsberger C, **Pattaro C**, Pramstaller PP, Girelli D, Arvas M, Toivonen J, Molnos S, Peters A, Polasek O, Rudan I, Hayward C, McDonnell C, Pirastu N, Wilson JF, van den Hurk K, Quee F, Ferrucci L, Bandinelli S, Tanaka T, Girotto G, Concas MP, Pecori A, Verweij N, van der Harst P, van de Vegte YJ, Kiemeny LA, Sweep FC, Galesloot TE, Sulem P, Gudbjartsson D, Ferkingstad E, FinnGen Consortium, Djousse L, Cho K, Inouye M, Burgess S, Benyamin B, Oexle K, Swinkels D, Stefansson K, Magnusson M, Ganna A, Gaziano M, Ivey K, Danesh J, Pereira A, Wood AM, Butterworth AS, Di Angelantonio E. [Novel loci and biomedical consequences of iron homeostasis variation](#). *Commun Biol* 2024; **7**(1):1631. DOI 10.1038/s42003-024-07115-3
 130. Hantikainen E, Weichenberger CX, Dordevic N, Foco L, Gögele M, Melotti R, **Pattaro C**, Ralser M, Amari F, Farztdinov V, Mülleder M, Pramstaller PP, Rainer J, Domingues FS. [Metabolite and protein associations with general health in the population-based CHRIS study](#). *Sci Rep* 2024; **14**:26635. DOI: 10.1038/s41598-024-75627-3.
 129. Hopfner F, Tietz A, D'Elia Y, **Pattaro C**, Becktepe JS, Gögele M, Barin L, Pramstaller PP, Kuhlenbäumer G, Melotti R. [Archimedes spiral rating: determinants and population-based limits of normal](#). *Mov Dis Clin Pract* 2024; **10**(11): 1257-65; DOI: 10.1002/mdc3.14201
 128. Young W, van der Most PJ, Bartz TM, Bos MM, Biino G, Duong T, Foco L, Lominchar JT, Müller-Nurasyid M, Nardone GG, Pecori A, Ramirez J, Repetto L, Schramm K, Shen X, van Duijvenboden S, van Heemst D, Weiss S, Yao J, Benjamins JW, Alonso A, Spedicati B, Biggs ML, Brody JA, Dörr M, Fuchsberger C, Gögele M, Guo X, Ikram MA, Jukema JW, Kääb S, Kanters JK; Lifelines Cohort Study; Lin HJ, Linneberg A, Nauck M, Nolte IM, Pianigiani G, Santin A, Soliman EZ, Tesolin P, Vaccargiu S, Waldenberger M, van der Harst P, Verweij N, Arking DE, Concas MP, De Grandi A, Girotto G, Grarup N, Kavousi M, Mook-Kanamori DO, Navarro P, Orini M, Padmanabhan S, **Pattaro C**, Peters A, Pirastu M, Pramstaller PP, Heckbert SR, Sinner M, Snieder H, Völker U, Wilson JF, Gauderman WJ, Lambiase PD, Sotoodehnia N, Tinker A, Warren HR, Noordam R, Munroe PB. [Genome-wide interaction analyses of serum calcium on ventricular repolarization time in 125 393 participants](#). *J Am Heart Assoc* 2024; **13**(17):e034760; DOI: 10.1161/JAHA.123.03476
 127. Fujii R, Melotti R, Köttén A, Teumer A, Giardiello D, **Pattaro C**. [Integrating multiple kidney function markers to predict all-cause and cause-specific mortality: prospective analysis of 366,758 UK Biobank participants](#). *Clin Kidney J* 2024; **17**(8):sfae207. DOI: 10.1093/ckj/sfae207
 126. Barbieri G, Garcia-Larsen V, Lundin R, Fujii R, Melotti R, Gögele M, Christopher KB, Cazzoletti L, Pramstaller PP, Zanolin ME, **Pattaro C**, Hantikainen E. [Associations between dietary patterns and kidney health assessed in the population-based CHRIS study using reduced rank regression](#). *J Ren Nutr* 2024; **34**(5): 427-37; doi: 10.1053/j.jrn.2024.03.003
 125. Sterenborg RBTM, <80 authors>, **Pattaro C**, <57 authors>, Medici M. [Multi-trait analysis characterizes the genetics of thyroid function and identifies causal associations with clinical implications](#). *Nat Commun* 2024; **15**:888; DOI: <https://doi.org/10.1038/s41467-024-44701-9>
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REVIEW ARTICLES

Peer-reviewed

3. **Pattaro C**. [Genome-wide association studies of albuminuria: towards genetic stratification in diabetes?](#) *J Nephrol* 2018; **31**(4): 475-487.
2. Devuyt O, **Pattaro C**. [The UMOD locus: Pathogenesis and prognostic insights for kidney disease](#). *J Am Soc Nephrol* 2018; **29**(3): 713-726.
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INVITED EDITORIALS & COMMENTARIES

Peer-reviewed, except where explicitly indicated

7. **Pattaro C**, Ponte B. [Genomics of kidney volumes: one size does not fit all](#). *Kidney Int* 2026; **109**(2):266-268. doi: 10.1016/j.kint.2025.12.003
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5. Fujii R, **Pattaro C**. [Genetically-instrumented public health: facing obesity to prevent chronic kidney disease](#). *Cardiovasc Res* 2022; **118**(15): 3013-3015. DOI: 10.1093/cvr/cvac168
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3. Foco L, **Pattaro C**. [Genetics of blood pressure regulation: possible paths in the labyrinth](#). *Am J Kidney Dis* 2019; **74**(3):421-424.
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1. **Pattaro C**, Saint-Pierre A. [Family-based studies to the rescue of genome-wide association studies in renal function](#). *Kidney Int* 2013; **83**: 196-198.

Scientific communications at congresses

Recurrent scientific societies acronyms expanded in the footnote¹

INVITED ORAL COMMUNICATIONS AT CONGRESSES

10. **Molecular profiling of uncontrolled and treatment resistant hypertension in the general population: the HyperProfile study** Research South Tyrol Final Event 2019 and Kick off 2022, Bolzano; 4 Apr 2024
9. **Genomics of kidney function: a labyrinthic city or an inextricable forest?** 59th ERA Congress Paris & virtual; 19-22 May 2022
8. **Population-based genetic association studies and identification of actionable molecular targets: concepts and examples** IBIG Forum - Real World Evidence in Health Care Research; Webinar; 4 Oct 2021
7. **Genetics of kidney function: findings from the CKDGen Consortium.** 2nd International Congress on Personalized Health Care, Montreal, Canada; 23-26 Sep 2018.
6. **What do renal function GWAS teach us?** 8th International Kidney.CH Symposium, Bern, Switzerland; 6 Sep 2018.
5. **The Cooperative Health Research In South Tyrol (CHRIS) study.** Conference *Genetic data in public research databases: which governance mechanisms should apply?*, Bolzano, Italy; 27-28 Apr 2016.
4. **GWAS of kidney function and albuminuria traits in the general population: recent findings.** ERA-EDTA Working Group on Inherited Kidney Diseases (WGIKD) CME Symposium "Population Genetics of Kidney Diseases", Regensburg, Germany; 25-26 Sep 2015.
3. **Genome-wide association of estimated glomerular filtration rate reveals new loci for kidney function.** 5th International meeting on complex traits and genetic isolates, Trieste, Italy; 16 Mar 2012.
2. **Fattori genetici nelle malattie renali / Genetische Faktoren bei den Nierenerkrankungen.** Congress "Nephrology Today on EUREGIO", Bolzano, Italy; 4 Nov 2011.
1. **Meta-analysis of genome-wide association data in the CKDGen consortium: critical aspects and methodological solutions.** meeting of the Italian Genetic Isolated Population Researchers, Tortoli, 30 May 2010.

CONTRIBUTED ORAL PRESENTATIONS (PEER-REVIEWED)

limited to abstract presented as 1st or last author; presenting author is underlined

14. Avella MT, **Pattaro C.** **Relation among cannabis use, schizophrenia, and autism: a Mendelian randomization analysis** 25th World Congress of Psychiatry; Prague, CZ, 5-8 Oct 2025 (short oral)
13. Foco L, De Bortoli M, Del Greco M F, Frommelt LS, Volani C, Riekschnitz DA, Motta BM, Fuchsberger C, Völker U, Gögele M, Dörr M, Teumer A, Pramstaller PP, Rossini A, Pattaro C. **Using two-sample Mendelian randomization to identify potential drug targets: the case of desmoplakin.** 13th SISMEC Congress; Pavia, IT, 9-12 Sep, 2025
12. Barbieri G, Cazzoletti L, Melotti R, Hantikainen E, Lundin R, Barin L, Gambaro G, Pramstaller PP, Zanolin ME, **Pattaro C.** **Stima della diffusione delle malattie renali nella popolazione del distretto Val Venosta/Vinschgau (Alto Adige).** 12th SISMEC Congress; Jesi, IT, 20-23 Sep, 2023
11. Fujii R, Melotti R, **Pattaro C.** **Integrated kidney markers and cardiovascular mortality: a survival analysis in UK Biobank.** 60th ERA congress, Milan, IT, 15-18 Jun 2023. Top 30 by young investigator best abstract award. *Nephrol Dial Transplant* 2023; **Suppl 1**:2906

¹AIE: Italian Epidemiological Association; ASHG: American Society of Human Genetics; ASN: American Society of Nephrology; CHARGE: Cohorts for Heart and Aging Research in Genomic Epidemiology; EMGM: European Mathematical Genetics Meeting; ERA: European Renal Association; EDTA: European Dialysis Transplantation Association; ESH: European Society of Hypertension; ESHG: European Society of Human Genetics; IBIG: Italian Biostatistics Group; IBS: International Biometric Society; IGES: International Genetic Epidemiology Society; ISCB: International Society for Clinical Biostatistics; ISH: Int'l Society of Hypertension; SIGU: Italian Society of Human Genetics; SIN: Italian Society of Nephrology; SISMEC: Italian Society of Medical Statistics and Clinical Epidemiology

10. Barbieri G, Giardiello D, Gögele M, Weichenberger CX, Foco L, Bottigliengo D, Pramstaller PP, Melotti R, **Pattaro C. Il monitoraggio dei sintomi aiuta a descrivere la diffusione dei virus? Risultati di un anno di follow-up in Val Venosta.** 46th AIE Congress; Padova, Jun 29 - Jul 1, 2022
9. Fujii R, Barbieri G, Ghasemi D, Gögele M, Pramstaller P, **Pattaro C. MO383: Structural Equation Modelling to Improve Kidney Function Assessment in The General Population.** 59th ERA Congress Paris & virtual; 19-22 May 2022. Mini-oral presentation. *Nephrol Dial Transplant* 2022; 37(Suppl 3)
8. Foco L, Poglitsch M, Gögele M, Pramstaller PP, **Pattaro C. Distribution of Renin-Angiotensin-Aldosterone System (RAAS) biomarkers in treated hypertensive individuals from the general population: the CHRIS study.** ESH/ISH joint meeting, Apr 11-14, 2021 online; *J Hypert* 2021; 39:e63
7. Poglitsch M, Foco L, Gögele M, Pramstaller PP, **Pattaro C. Reference ranges and cut-off values for simultaneous monitoring of RAS blocker efficacy and screening for secondary hypertension using RAAS Triple-A profiling.** ESH/ISH joint meeting, 11-14 Apr 2021 online *J Hypert* 2021; 39:e46
6. Murgia F, Melotti R, Foco L, Gögele M, Motta B, Meraviglia V, Merati G, Schmidt G, Rossini A, Pramstaller PP, **Pattaro C. Cigarette smoking and heart rate variability: results from the CHRIS study.** 9th SISMEC congress, Gargnano, IT, 13-16 Sep 2017
5. **Pattaro C**, on behalf of the CKDGen consortium. **Meta-analysis of 50 genome-wide association studies identifies multiple novel loci for renal function and kidney damage: the CKDGen Consortium.** 50th ERA-EDTA congress, Istanbul, Turkey, 18-21 May 2013
4. **Pattaro C**, Ruczinski I, Fallin DM, Parmigiani G. **Dimensionality reduction in Genome-wide association studies: a Metropolis-Hastings algorithm for the recognition of haplotype blocks.** 6th IBS Italian region congress, Pisa, 20-22 Jun 2007
3. **Pattaro C**, Locatelli F, de Marco R. **Early exposures and congenital factors on the incidence and remission of asthma in children, adolescents and adults.** 2nd SISMEC congress, Brescia, 1-4 Oct 2003
2. **Pattaro C**, Verlato G, Sartori S, Drane W, de Marco R. **Disease cluster detection using bootstrap.** 5th IBS Italian region congress, Marina di Massa, 10-12 Sep 2003
1. **Pattaro C**, Zanolin ME, Accordini S, de Marco R. **Climate and distribution of asthma-like symptoms in Italy: an analysis with computer intensive methods.** 4th IBS Italian region congress, Rimini 13-15 Jun 2001

POSTER PRESENTATIONS (PEER-REVIEWED)

limited to abstract presented as 1st or last author; * denotes presenting author

56. Foco L*, Baron S, Travers S, König E, Pramstaller PP, Zennaro MC, **Pattaro C. Genomic associations and mediation of serum 18-Oxocortisol levels at the KCNJ5 locus.** ESHG Conference, Milan, 24-27 May 2025
55. Emmert D*, Fujii R, Ghasemi-Semeskandeh D, **Pattaro C. Latent variable analysis of kidney function genome-wide association studies enhances detection of functional variants** ESHG Conference, Milan, 24-27 May 2025
54. Lundin R, Melotti R, Barin L, Gögele M, Rainer J, Emmert D, Fuchsberger C, Mascalzoni D, De Grandi A, Hantikainen E, Domingues FS, Hicks AA, Pramstaller PP, **Pattaro C. Lo studio di popolazione CHRIS: Una risorsa epidemiologica in crescita.** AIE Congress, Salerno, IT, 8-11 Apr 2025
53. Del Greco M F*, Pontali G, Foco L, **Pattaro C. Instrumental variable selection accounting for between-study heterogeneity in two-sample Mendelian randomisation studies: an application to metabolomics and Parkinson's disease.** 45th ISCB annual conference, Thessaloniki, GR, 21-25 Jul 2024

52. Ghasemi-Semeskandeh D, König E, Foco L, Dordevic N, Gögele M, Rainer J, Ralser M, Acoba B, Peters DJM, Pramstaller PP, **Pattaro C***. **Phenotypic and metabolomic landscape of FAM47E-SHROOM3 exonic haplotypes**. ESHG Conference, Berlin, DE, 1-4 Jun 2024; no. P18.005.D
51. **Pattaro C***, Noce D, Foco L, Orth-Höller D, König E, Barbieri G, Pietzner M, Coassin S, Fuchsberger C, Gögele M, Del Greco-M F, De Grandi A, Summerer M, Wheeler E, Langenberg C, Lass-Flörl C, Pramstaller PP, Kronenberg F, Würzner R. **A genome-wide association study of the three complement system activation pathways implicates causal biological and pathological mechanisms**. IGES meeting, Nashville TN, USA, 5-7 Nov 2023; no. 107
50. Foco L*, König E, Würzner R, Kronenberg F, Pramstaller PP, Fuchsberger C, **Pattaro C**, del Greco-M F. **Assessing the Causal Effect of SARS-CoV-2 Infection and COVID-19 Severity on Complement System Activation using Mendelian Randomization**. IGES meeting, Nashville TN, USA, 5-7 Nov 2023; no. 46
49. Ghasemi-Semeskandeh D*, König E, Foco L, Dordevic N, Gögele M, Rainer J, Ralser M, Peters DJM, Pramstaller PP, **Pattaro C**. **Phenome-wide, Metabolomic and Proteomic Association Scan of SHROOM3 Haplotypes Based on Imputed Exonic Variants**. IGES meeting, Nashville TN, USA, 5-7 Nov 2023; no. 50
48. **Pattaro C***, Noce D, Foco L, Orth-Höller D, König E, Barbieri G, Pietzner M, Coassin S, Fuchsberger C, Gögele M, Del Greco-M F, De Grandi A, Summerer M, Wheeler E, Langenberg C, Lass-Flörl C, Pramstaller PP, Kronenberg F, Würzner R. **Genome-wide association, colocalization, and Mendelian randomization analyses of the three complement system activation pathways in a general population sample**. ASHG meeting, Washington DC, USA, 1-5 Nov 2023; no. PB1557
47. Ghasemi-Semeskandeh D*, Dordevic N, Foco L, König E, Emmert D, Lang M, Hantikainen E, Gögele M, Rainer J, Domingues FS, Ralser M, Fuchsberger C, Peters DJM, Pramstaller PP, **Pattaro C**. **Phenome-wide, Metabolomic and Proteomic Association Scan of SHROOM3 Haplotypes Based on Imputed Exonic Variants**. ASHG meeting, Washington DC, USA, 1-5 Nov 2023; no. PB4318
46. Barbieri G*, Cazzoletti L, Melotti R, Hantikainen E, Lundin R, Barin L, Gambaro G, Pramstaller PP, Zanolini ME, **Pattaro C**. **Stima della prevalenza di malattia renale cronica (CKD) nella popolazione generale della Val Venosta/Vinschgau (Studio CHRIS)**. 64th SIN Congress, Torino, IT, 4-7 Oct 2023
45. Foco L*, Arisido MW, König E, Zennaro MC, Poglitsch M, Pramstaller PP, Fuchsberger C, **Pattaro C**. **Genetic determinants of Renin-Angiotensin-Aldosterone System (RAAS) in the Cooperative Health Research In South Tyrol study**. 26th SIGU Congress, Rimini, IT, 4-6 Oct 2023
44. Ghasemi-Semeskandeh D*, Dordevic N, Foco L, König E, Emmert D, Lang M, Hantikainen EM, Gögele M, Rainer J, Domingues FS, Ralser M, Fuchsberger C, Peters DJM, Pramstaller PP, **Pattaro C**. **Phenome-wide, metabolomic and proteomic association scan of SHROOM3 haplotypes based on imputed exonic variant**. 1st Int'l NephGen Symposium, Freiburg, Germany, 18-21 Sep 2023
43. Ghasemi-Semeskandeh D*, Emmert D, König E, Foco L, Gögele M, Barin L, Fujii R, Fuchsberger C, Peters DJM, Pramstaller PP, **Pattaro C**. **Systematic mediation analysis of genetic loci associated with kidney function in a population-based study**. 44th ISCB annual conference, Milan, 27-31 Aug 2023.
42. Fujii R, Ghasemi-Semeskandeh D*, **Pattaro C**. **Genome-wide structural equation modelling underpins common genetic architecture of kidney function traits**. ESHG Conference, Glasgow, UK, 10-13 Jun 2023.
41. Fujii R*, Melotti R, **Pattaro C**. **Integration of kidney biomarkers and all-cause mortality: findings from the UK Biobank**. 33rd Annual Scientific Meeting of the Japan Epidemiological Association, Hamamatsu, Japan, 1-3 Feb 2023
40. Fujii R*, Melotti R, Gögele M, Barin L, Ghasemi-Semeskandeh D, Barbieri G, Pramstaller PP, **Pattaro C**. **Structural Equation Modeling of Kidney Function Biomarkers Improves Incident Cardiovascular Risk Estimation**. ASN Congress, KidneyWeek, Orlando, FL, USA, 3-6 Nov 2022; no. TH-PO624

39. Arisido MW*, Foco L, König E, Zennaro MC, Poglitsch M, Pramstaller PP, Fuchsberger C, **Pattaro C** **Genome-Wide Analysis Revealed Genetic Control of the Renin-Angiotensin-Aldosterone System in the General Population**; American Heart Association 2022 Scientific Sessions, Chicago, IL, USA, Nov 5-7, 2022; *Circulation* 2022; **146**(Suppl 1): A12625-A12625
38. Foco L*, Arisido MW, König E, Zennaro MC, Poglitsch M, Pramstaller PP, Fuchsberger C, **Pattaro C**. **Genetics determinants of Renin-Angiotensin-Aldosterone System (RAAS) in the Cooperative Health Research In South Tyrol study**. ASHG meeting, Los Angeles, CA, USA, 25-29 Oct 2022; no. PB1414
37. Fujii R*, **Pattaro C**. **Genomic structural equation modeling to unravel kidney-specific variants from multiple biomarkers**. ASHG meeting, Los Angeles, CA, USA, 25-29 Oct 2022; no. PB1449
36. Ghasemi-Semeskandeh D*, Emmert D, Eva König E, Foco L, Gögele M, Barin L, Fuchsberger C, Peters DJM, Pramstaller PP, **Pattaro C**. **Can individual studies add value to characterize loci from genome-wide association meta-analyses? A case study**. 31st IGES meeting. Paris, France, Sep 7-9, 2022. Proceedings: <https://doi.org/10.1002/gepi.22503>
35. Giardiello D*, Melotti R, Barbieri G, Gögele M, Weichenberger CX, Foco L, Bottigliengo D, Barin L, Lundin R, Pramstaller PP, **Pattaro C**. **Fattori associati alla probabilità di effettuare un test nasofaringeo per identificare un'infezione da SARS-CoV-2: lo studio CHRIS COVID-19**. 46th AIE Congress; Padova, Jun 29 - Jul 1, 2022
34. Ghasemi-Semeskandeh D*, Emmert D, Eva König E, Foco L, Gögele M, Barin L, Fujii R, Fuchsberger C, Peters DJM, Pramstaller PP, **Pattaro C** **Value of individual population studies to characterize loci associated with complex traits**. 55th ESHG Conference. Vienna, Austria, Jun 11-14, 2022.
33. Ghasemi-Semeskandeh D*, Emmert D, König E, Foco L, Gögele M, Barin L, Fujii R, Fuchsberger C, Pramstaller PP, **Pattaro C**. **Value of individual population studies to characterize loci associated with complex traits**. CHARGE Investigator Meeting, Philadelphia, PA, USA, 26-27 Apr 2022.
32. Poglitsch M*, Foco L, Gögele M, Pramstaller PP, **Pattaro C**. **Reference Ranges And Cut-Off Values For Simultaneous Monitoring Of RAS-Blocker Efficacy And Screening For Secondary Hypertension Using RAAS Triple-A Profiling**. *Hypertension Scientific Sessions 2021*, online, Sep 27-29, 2021. *Hypertension* 2021; **78**:AP136.
31. Barbieri G*, Gögele M, Melotti R, Weichenberger CX, Foco L, Giardiello D, Bottigliengo D, Pramstaller PP, **Pattaro C** **A random population sample and 10 follow-ups: one year of COVID-19 pandemic seen through the CHRIS COVID-19 study**. 11th SISMEC congress, online, Sep 15-18, 2021.
30. Arisido MW*, Foco L, Gögele M, Melotti R, Pramstaller PP, Poglitsch M, **Pattaro C** **Cluster Analysis of Renin-Angiotensin-Aldosterone System (RAAS) hormones in general population individuals under anti-hypertensive treatment**. 11th SISMEC congress, online, Sep 15-18, 2021.
29. Melotti R*, Gögele M, Foco L, Mascalzoni D, De Grandi A, Rainer J, Domingues F, Fuchsberger C, Egger C, Amon VC, Hicks AA, Mian M, Mahlknecht A, Lombardo S, Gärtner T, Meier H, Weiss H, Rainer R, Dejaco C, Pizzato M, Weiss G, Lavezzo E, Crisanti A, Pramstaller PP*, **Pattaro C***. **Epidemiological, molecular and genetic characterization of the new coronavirus disease in Val Venosta/Vinschgau: the CHRIS Covid-19 study**. SISMEC Intermediate Meeting, Nov 12-13, 2020.
28. Gögele M*, Melotti R, Foco L, Mascalzoni D, De Grandi A, Rainer J, Domingues F, Fuchsberger C, Egger C, Amon VC, Hicks AA, Mian M, Mahlknecht A, Lombardo S, Gärtner T, Meier H, Weiss H, Rainer R, Dejaco C, Pizzato M, Weiss G, Lavezzo E, Crisanti A, Pramstaller PP*, **Pattaro C***. **Caratterizzazione epidemiologica, molecolare e genetica della malattia da nuovo coronavirus in Val Venosta: lo studio CHRIS Covid-19**. 44th AIE congress, online, Nov 2-6, 2020.
27. Vukovic V*, Gögele M, Rainer J, Garcia-Larsen V, Domingues F, Pramstaller PP, **Pattaro C**. **Relationship between total protein intake and kidney function in the Cooperative Health Research In South Tyrol (CHRIS) study**. 10th SISMEC congress, Rome, Italy, Sep 18-21, 2019. [poster presented as short oral communication]
26. **Pattaro C***, CKDGen Consortium. **Genetic landscape of kidney function: results from a trans-ethnic genome-wide association meta-analysis of > 750,000 individuals**. ESHG

- Conference, Milano, Italy, Jun 16-19, 2018. [poster selected for oral presentation in the "Best Poster" session]
25. Noce D*, Foco L, Fuchsberger C, Gögele M, Kronenberg F, Würzner R, Lass-Flörl C, Pramstaller PP, Orth-Höller D, **Pattaro C. Genome-wide association study on the complement system activation by the classical, lectin, and alternative pathways in the Cooperative Health Research in South Tyrol (CHRIS) study.** ESHG Conference, Milano, IT, 16-19 Jun 2018.
 24. Foco L*, Del Greco M F, Fuchsberger C, Gögele M, Murgia F, Huan T, Levy DB, Teumer A, Dörr M, Schmidt G, Rossini A, Pramstaller PP, **Pattaro C. Bioinformatic and Mendelian randomization analyses characterize variants in desmosomal genes associated with ECG traits in the general population.** ESHG Conference, Milano, IT, 16-19 Jun 2018.
 23. Noce D*, Foco L, Fuchsberger C, Gögele M, De Grandi A, Würzner R, Lass-Flörl C, Pramstaller PP, Orth-Höller D, **Pattaro C. Genome-wide association study of the three complement activity pathways: the Cooperative Health Research in South Tyrol (CHRIS) study.** ASHG meeting, Orlando, FL, USA, 17-21 Oct 2017.
 22. Foco L*, Fuchsberger C, Gögele M, Murgia F, Schmidt G, Rossini A, Pramstaller PP, **Pattaro C. Association of common variants in arrhythmogenic cardiomyopathy desmosomal genes with ECG traits in the general population.** ASHG meeting, Orlando, FL, USA, 17-21 Oct 2017.
 21. Del Greco F*, Foco L, Melotti R, Meraviglia V, Paglia G, Joshi PK, Wright AF, Campbell H, Wilson JF, Pramstaller PP, Rossini A, **Pattaro C. Screening the effects of lipidomics alterations on atrial depolarization.** 38th ISCB annual conference, Vigo, ES, 9-13 Jul 2017.
 20. **Pattaro C***, Salvi E, on behalf of the CKDGen Consortium. **Meta-regression to uncover genetic interactions** CHARGE Investigator Meeting, New York City, NY, USA, 23-24 Mar 2017.
 19. Noce D*, Gögele M, Schwienbacher C, De Grandi A, D'Elia Y, Pramstaller PP, **Pattaro C. Can sequential enrollment of study participants explain part of the missing heritability?** 8th SISMEC congress, Torino, 16-19 Sep 2015.
 18. **Pattaro C**, Gögele M, Mascalzoni D, De Grandi A, Schwienbacher C, Del Greco F, Melotti R, Facheris MF, Pramstaller PP. **The Cooperative Health Research in South Tyrol (CHRIS) study.** 23rd IGES meeting. Vienna, AT, 28-30 Aug 2014. ISBN 978—1-940377-01-8. Available at: <http://www.geneticepi.org/meeting-abstracts/>.
 17. Noce D*, Gögele M, Schwienbacher C, De Grandi A, D'Elia Y, Pramstaller PP, **Pattaro C. Missing heritability partially explained by sequential enrollment of study participants.** 23rd IGES meeting. Vienna, Austria, 28-30 Aug 2014. ISBN 978—1-940377-01-8. Available at <http://www.geneticepi.org/meeting-abstracts/>.
 16. Taliun D*, Gamper J, **Pattaro C. A fast whole-genome detection of LD-based haplotype blocks.** European Conference on Computational Biology, Berlin, Germany, Jul 21-23, 2013.
 15. Taliun D*, Gamper J, **Pattaro C. Memory and time efficient genome-wide haplotype block estimation.** EMGM, Leiden, The Netherlands, Apr 25, 2013.
 14. Saint-Pierre A*, D'Elia Y, Pramstaller PP, **Pattaro C. A workflow for linkage analysis on high density SNP arrays.** EMGM, Goettingen, Germany, Apr 12-13, 2012.
 13. **Pattaro C*** on behalf of the CKDGen Consortium. **Genome-wide association studies (GWASs) in homogeneous subgroups of Caucasian samples identify six novel loci for renal function: the CKDGen Consortium.** 20th IGES meeting, Heidelberg, Germany, 18-20 Sep 2011. *Genet Epidemiol* 2012; **36**: 720-77.
 12. Taliun D*, Fuchsberger C, Pramstaller PP, **Pattaro C** on behalf of the CKDGen consortium. **GWAtoolbox: An R Package for Time Efficient Quality Control of Multiple GWAS Data Files.** The R User Conference 2011, Coventry, UK, 16-18 Aug 2011.
 11. Saint-Pierre A*, Del Greco M F, Pramstaller PP, Pfeufer A, **Pattaro C. On the detection of pleiotropic QTLs in extended pedigree data: evaluation of different multi-trait association approaches.** EMGM, London, UK, 11-12 Apr 2011.

10. **Pattaro C***, Fuchsberger C, Teumer A, Chen MH, Boeger CA, Olden M, Gao X, Parsa A, Yang Q, Taliun D, O'Connell JR, Isaacs A, Chasman DI, Heid IM, Kao WHL, Fox CS, Köttgen A on behalf of the CKDGen Consortium. **Critical issues in the meta-analysis of genome-wide association studies (GWAS) with small number of cases: the CKDGen Consortium.** 19th IGES meeting, Boston, MA, USA; Oct 10-12, 2010; no. 134; *Genet Epidemiol* 2010; **34**(8): 917-92. DOI: 10.1002/gepi.20553
9. **Pattaro C***, Del Greco M F, Luchner A, Pichler I, Winkler T, Hicks AA, Fuchsberger C, Franke A, Melville SA, Peters A, Wichmann HE, Schreiber S, Heid IM, Krawczak M, Minelli C, Wiedermann CJ, Pramstaller PP. **Genome-Wide Association Study (GWAS) and Fine Mapping of NT-proBNP Level: Novel Loci and Novel Variants in the MTHFR-CLCN6-NPPA-NPPB Gene Cluster.** 19th IGES meeting, Boston, MA, USA; 10-12 Oct 2010; no. 211; *Genet Epidemiol* 2010; **34**(8): 917-92. DOI: 10.1002/gepi.20553
8. Riegler P*, Stifter G, Minelli C, Pramstaller PP, **Pattaro C.** **Stima del GFR negli studi di popolazione: concordanza tra le equazioni più comuni e impatto sulla stima della prevalenza della malattia renale cronica (MRC).** 51st SIN congress, Rimini, IT, 6-9 Oct 2010; no. 161.
7. Riegler P, Stifter G, Minelli C, Pramstaller PP, **Pattaro C***. **Agreement between Glomerular Filtration Rate (GFR) estimating equations: impact on estimation of Chronic Kidney Disease (CKD) prevalence and identification of risk factors.** 47th ERA-EDTA congress, Munich, DE, 25-28 Jun 2010
6. **Pattaro C***, Köttgen A, Fuchsberger C, Böger CA, Olden M, Glazer NL, Parsa A, Gao X, Yang Q, Chen MH, O'Connell JR, Isaacs A, Teumer A, Chasman DI, Heid IM, Fox CS, Kao WH, on behalf of the CKDGen consortium. **Common Genetic Variants are Associated with Chronic Kidney Disease Stage 3b: the CKDGen Consortium.** 47th ERA-EDTA congress, Munich, DE, 25-28 Jun 2010
5. **Pattaro C***, Köttgen A, Böger CA, Fuchsberger C, Olden M, Teumer A, Chen MH, Glazer NL, Parsa A, Gao X, Yang Q, O'Connell JR, Isaacs A, Li M, Heid IM, Kao WH, Fox CS, Chasman DI, on behalf of the CKDGen consortium. **Multiple New Genetic Loci for Renal Function are Associated with eGFR across the Spectrum of Hypertension and Diabetes: The CKDGen Consortium.** 47th ERA-EDTA congress, Munich, DE, 25-28 Jun 2010
4. **Pattaro C***, Aulchenko YS, Isaacs A, Vitart V, Hayward C, Franklin CS, Polasek O, Kolcic I, Biloglav Z, Campbell S, Hastie N, Lauc G, Meitinger T, Oostra BA, Gyllenstein U, Wilson JF, Pichler I, Hicks AA, Campbell H, Wright AF, Rudan I, van Duijn CM, Riegler P, Marroni F, Pramstaller PP, on behalf of the EUROSPAN consortium. **The non-muscle myosin heavy chain type II isoform A (MYH9) gene is associated with Serum Creatinine variations in three European isolated populations: the Eurospan project.** 5th Int'l Course on Genetics and Renal Diseases, Genova, IT, 28-30 May 2009
3. **Pattaro C***, Marroni F, Pramstaller PP, Riegler P. **Genome-wide linkage scan di GFR e creatinina in popolazioni alpine isolate: lo studio MICROS.** 23rd SIN Interregional Congress. Stra, Italy, 20-21 Sep 2007.
2. **Pattaro C***, Marroni F, Riegler P, Pramstaller PP. **Genome-wide scan of Glomerular Filtration Rate and Serum Creatinine in an Isolated Alpine Population: the GenNova Study.** 3rd International Meeting on Genetics of Complex Diseases and Isolated Populations. Torino, Italy, 26-29 May 2007.
1. **Pattaro C***, Locatelli F, de Marco R. **Il contributo della conoscenza della storia naturale della malattia nella ricerca epidemiologica sull'asma nell'adulto.** 26th AIE Annual Congress, Napoli, Italy, 24-26 Sep 2002.

Seminars and talks

INVITED SEMINARS

13. **Ghosthunting as a key tool for human health knowledge advancement** Open Seminar Series, Institute for Biomedicine, Eurac Research, Bolzano, IT; 4 Feb 2025

12. **Genetic epidemiology of quantitative traits: how observational studies can advance human health knowledge** Cardiovascular Seminar Programme, Division of Cardiovascular Sciences, The University of Manchester, UK; 17-18 Oct 2024 (guest of M Tomaszewski)
11. **Kidney disease in the era of Genomics**; seminar; Colloques de formation continue du service de néphrologie et hypertension, Université de Genève & Hôpitaux Universitaires Genève, online, 2 Dec 2022 (guest of B Ponte)
10. **Genetic epidemiology of kidney function: recent findings**; seminar; PhD School in Applied Life and Health Sciences, University of Verona; virtual, 27 Jan 2022 (guest of ME Zanolin)
9. **The Cooperative Health Research In South Tyrol (CHRIS) study**, Seminar (MSc), University of Milano Bicocca, Dept of Statistics and Quantitative Methods; online 16 Apr 2020 (guest of R Bellocco)
8. **Genetics of renal function in the general population: evidences and perspectives**. Paris-Cardiovascular research Center (PARCC), Paris, FR; 30 Mar 2018 (guest of MC Zennaro)
7. **Moving beyond genome-wide association studies: some possible pathways**. Institute of Genetics and Biophysics "Adriano Buzzati-Traverso", National Research Council (CNR), Napoli, IT; 23 Oct 2017 (guest of M Ciullo)
6. **Population-based studies in genomics: value for public and personalized health**. Course *Genomics in the clinic* - PhD School in Molecular Medicine - San Raffaele University Hospital, Milano, IT; 29-30 Jun 2017
5. **Mid-size cohorts: international perspectives of the CHRIS study**. Illumina Biobank Webinar; Apr 21, 2015.
4. **Uncovering genes for renal function: recent results and methodological issues**. HuGeF - Human Genetics Foundation, Torino, IT; 3 May 2013 (guest of P Vineis)
3. **Genome-wide association studies of renal function: methodological issues and novel loci**. University Medical Center Freiburg, DE; 29 Jun 2012 (guest of A Köttgen)
2. **Genetic epidemiology of renal function: what we are learning from SNP array studies**. (plenary lecture) San Raffaele Hospital University, Inst. of Genetics and Cell Biology, Milano, IT; 22 May 2012 (guest of D Toniolo)
1. **Uncovering Common Genetic Variants Associated with Kidney Function and Chronic Kidney Disease**. Harvard School of Public Health, Dept. of Biostatistics, Correlated and High-Dimensional Data Seminar, Boston MA, USA; 18 Oct 2010 (guest of F Dominici)

INVITED LECTURES WITHIN COURSE OR SCHOOL PROGRAMS

7. **Examples of clinical epidemiology studies in the general population**; lecture; within the course "Biomedical research in South Tyrol", Südtiroler Gesellschaft für Allgemeinmedizin/Società Altoatesina di Medicina Generale; Bolzano, IT, 24 Nov 2023
6. **Translational value of genome-wide association studies: applications in nephrology**; lecture; Winter Academy School of the Italian Human Genetics Society; Vipiteno, IT, 29 Jan 2023
5. **Increasing the clinical relevance of observational, population-based studies using genomics**; lecture; Summer School "Shaping a World-class university - Biostatistics and Epidemiological Methods" - PhD course "Translational Specialistic Medicine 'G.B. Morgagni'", University of Padova, Dept of Statistics; 27 Sep 2022
4. **A tale of babies, storks and cardiovascular risk: causal inference tools for observational epidemiology**; teaching lecture (BSc); University of Padova, Dept of Statistics; 10 May 2022 (guest of G Boccuzzo)
3. **Population-based studies in biomedicine: value for public & personalized health**, within the 2nd edition of the *Population-based studies and biobanks in the -omics era* course, organized by the Eurac Research Institute for Biomedicine for the HOROS PhD Programme Medical University Innsbruck; Bolzano, IT, 28-29 Nov 2019

2. **Genome-wide association studies and beyond**, within the 2nd edition of the *Population-based studies and biobanks in the -omics era* course, organized by the Eurac Research Institute for Biomedicine for the HOROS PhD Programme Medical University Innsbruck; Bolzano, IT, 28-29 Nov 2019
1. **Introduction to modern Genetic Epidemiology**. Master Course in Medical Statistics & Clinical Epidemiology, University of Verona; 4 Jul 2006 (guest of R de Marco)

LECTURE SERIES (INVITED): *ROLE OF STATISTICS IN THE HEALTH SCIENCES*

University of Padova, Dept. of Statistics, teaching lectures given within the course of Biomedical Statistics (BSc in Statistics) - guest of L. Ventura

6. *Servants of all sciences? The role of statisticians in the scientific progress: applications in biomedicine*; 19 Dec 2025
5. *Pervasiveness of statistics in genetics and biomedicine: some examples*; 9 Dec 2024
4. *The role of statistics to connect human genome and human health*; 20 Dec 2023
3. *Statistical genetics - exploring human genome through statistics*; 13 Dec 2022
2. *Statistics at the service of human health: applications in genetics, biology and medicine*; 17 Dec 2021
1. *Biostatistics, eventually: beyond definitions, statistics as a tool for human health*; 17 Dec 2020

Dissemination to lay audience

TALKS

2. *My genes, my kidneys: genetic research on chronic kidney disease / I miei reni, i miei geni: ricerca genetica sull'insufficienza renale cronica*. Science talk ([video](#)) at the [Long night of research](#), Bolzano, IT; 27 Sep 2019
1. *Health: from individual characteristics to general knowledge / Gesundheit: Von individuellen Charakteristiken zur allgemeinen Erkenntnis / Salute: dalle caratteristiche individuali alla conoscenza generale* [Conference/Tagung: Gemeinsam für die Gesundheit aller! / Insieme per la salute di tutti](#), Prato allo Stelvio, IT; 10 Nov 2018

PUBLICATIONS

2. *Ricerca genetica e insufficienza renale*. *Rene & Salute* 2010; 1: 9-10 (Rivista Trimestrale d'informazione e cultura dell'ASSOCIAZIONE PROVINCIALE AMICI della NEFROLOGIA, A.P.A.N., Trento)
1. *Un puzzle per esperti*. *Ovvero il ruolo della genetica nello studio della insufficienza renale*. *ACADEMIA* 2010; 51: 13-14 (*The Science Magazine of the European Academy of Bolzano*)

Declaration of truth

Everything declared in this CV is true, in agreement with the Italian law, articles 46 and 47 of D.P.R. 445/2000.

Appiano sulla strada del vino, February 19, 2026