

Céline Vetter

- Curriculum Vitae -

Education

- 2003 Diplôme d'Etude Universitaire Général (DEUG), Université Louis-Pasteur (ULP), Strasbourg, France (now: Université de Strasbourg)
- 2004 Licence (Bachelor equivalent, Major: Psychology), Université Louis-Pasteur (ULP), Strasbourg, France (now: Université de Strasbourg)
- 2006 Master of Science in neurocognitive Psychology, Ludwig-Maximilian-University (LMU), Munich, Germany, Mentor: Josef Zihl
- 2011 Dr. phil. (*summa cum laude*), Psychology (Minor: Biology), Ludwig-Maximilian-University (LMU), Munich, Germany, Mentor: Rainer Schandry

Postdoctoral Training

- 02/11-03/14 Human Chronobiology, Institute of Medical Psychology, LMU, Munich, Germany, Mentor: Till Roenneberg
- 04/14-03/16 Chronic Disease Epidemiology, Channing Division of Network Medicine, Brigham and Women's Hospital (BWH) and Harvard Medical School (HMS), Boston, USA
Mentor: Eva S. Schernhammer

Faculty Positions

- 04/16-09/17 Associate Epidemiologist, Channing Division of Network Medicine, Chronic Disease Epidemiology Unit, Brigham and Women's Hospital (BWH), Boston, MA, USA
- 04/16-09/17 Instructor in Medicine, Channing Division of Network Medicine, Harvard Medical School, Boston, MA, USA
- 10/16-09/17 Instructor in Medicine, Division of Sleep Medicine, Harvard Medical School, Boston, MA, USA
- 09/16- Associate Scientist, Program of Medical and Population Genetics, Broad Institute of MIT and Harvard, Cambridge, MA, USA
- 09/17- Assistant Professor, Tenure-Track, Department of Integrative Physiology, University of Colorado at Boulder, Boulder, CO, USA

Other professional positions

- 2005-2006 Research Assistant, Max-Planck-Institute for Psychiatry, Munich, Germany
- 2007 Postgraduate Research Associate, Warwick University, Coventry, UK
- 2015-2017 Member, Harvard Work Hours Health and Safety Group
- 2016- Scientific Advisory Board, Circadian Light Therapy Inc. (Founder: Dr. Myriam Juda), Vancouver, CA

Departmental Committee Service

- 2016-2017 Career Development Committee Member, Channing Division of Network Medicine, Brigham and Women's Hospital and Harvard Medical School

- 2017 Channing Junior Faculty Meeting Organizer, Brigham and Women's Hospital and Harvard Medical School
- 2017- Teaching Quality Framework (TQF) Departmental Action Team, University of Colorado at Boulder

External Committee Service

- 2013 Expert Advisor to the Technical Committee Shift Work, Hans-Böckler Foundation, Düsseldorf (D).
- 2013- Non-medical member of the German Society for Occupational and Environmental Medicine (DGAUM) Committee updating current guidelines for night and shift work
- 2016 Trainee Day Committee, Society for Research on Biological Rhythms (SRBR)
- 2017 European Biological Rhythms Society Program Committee Member
- 2017- Society for Research on Biological Rhythms Public Outreach Committee Member
- 2017- Auditor, Working Time Society
- 2018- Chair, Outreach Committee, Society for Research on Biological Rhythms

Professional Societies

- 2009- Working Time Society (Member)
- 2009- European Biological Rhythms Society (EBRS, Member)
- 2013- Society for Research on Biological Rhythms (SRBR, Member)
- 2013- Founding Member Arbeitszeitgesellschaft (German-speaking Working Time Society)
- 2013-2018 Vice-President Arbeitszeitgesellschaft (German-speaking Working Time Society, Founding Member)

Ad hoc Reviewer for: Biological Psychiatry, Current Biology, British Medical Journal, PloS One, Chronobiology International, Journal of Biological Rhythms, International Journal of Obesity, International Journal of Nursing, Annals of Medicine, Ergonomics, Sleep, Journal of Occupational Medicine and Environmental Health, Journal of Circadian Rhythms, Journal of Clinical Endocrinology and Metabolism, Cancer Epidemiology Biomarkers & Prevention, Industrial Health, Scientific Reports, Journal of Sleep Research, BMC Research Notes, iScience, Scandinavian Journal of Work, Environment and Health, Sleep Medicine, American Journal of Preventive Medicine.

Other Editorial Roles

- 2014-16 Guest editor, Zeitschrift für Arbeitswissenschaft (dt., Journal of Ergonomics, peer-reviewed)
- 2016-2017 Guest editor, www.sozialpolitik.ch (dt., open access, Journal of the Division of Sociology, Social Policy and Social Work, University of Fribourg, CH)
- 2016, 2017 Grant reviewer, EU Space REA Call, H2020
- 2017- Associate Editor, *Clocks & Sleep* (<http://www.mdpi.com/journal/sleep/editors>; open-access)
- 2018 Grant reviewer, Netherlands Organisation for Scientific Research

Honors and Prizes

- 2006 Poster prize for clinical research, Max-Planck-Institute for Psychiatry, Munich (D)
- 2007 Warwick Post-Graduate Fellowship, Warwick University, Coventry (UK)
- 2013-2018 Travel Stipend, Lieselotte- and Dr. Karl-Otto Winkler Foundation for Occupational Health (D)
- 2014 Travel Stipend, German Academic Exchange Service (DAAD)
- 2014 Merit Award, Society for Research on Biological Rhythms
- 2015 Travel Stipend, German Academic Exchange Service (DAAD)
- 2015 1st Prize, Best Oral Presentation, 22nd Working Time Society Meeting
- 2016 Ranked 1st in *Top 10 Most Cited Papers* (2013-2014): “Chronotype Modulates Sleep Duration, Sleep Quality, and Social Jet Lag in Shift-Workers”, *Journal of Biological Rhythms*
- 2016 Ranked 3rd in *Top 10 Most Cited Papers* (2013-2014): “The Munich ChronoType Questionnaire for Shift-Workers (MCTQ(Shift))”, *Journal of Biological Rhythms*
- 2016 Ranked 4th in *Top 10 Most Downloaded Papers* (2014-2016): “Chronotype Modulates Sleep Duration, Sleep Quality, and Social Jet Lag in Shift-Workers”, *Journal of Biological Rhythms*
- 2016 Society for Research on Biological Rhythms (SRBR): Research Merit Award

Funding

Completed

- 2012-2014 Light and Chronotype – Basic research for personalized medicine and interventions, Friedrich-Baur Foundation, Munich, Germany
Role: PI (\$10,000)
- 2014-2016 Clocks at Work – Introducing chronotype measures to epidemiological research, Deutsche Forschungsgemeinschaft (German Research Foundation),
Role: PI (\$134,785)
- 2014-2017 Adverse health effects of shift work (R01OH009803, NIOSH/NIH)
Role: Co-Investigator, PI: Eva S. Schernhammer
- 2016-2017 Integration of sleep/wake network models across multiple temporal and spatial scale (R00HL119618-04, NIH/NHLBI)
Role: Co-Investigator, PI: Andrew J. Phillips

Current

- 2018-2020 A Toolbox for Circadian Epidemiology: From Complex Environmental Signals to Personalized Medicine (2018 Research & Innovation Seed Grant Program, University of Colorado Boulder)
Role: PI (\$49,976)
The goal of this project is to create a landscape of known drivers of circadian rhythms in

real-life settings and quantify their relative contribution to timing of sleep and melatonin rhythms.

- 2016-2021 Impact of Melatonin, Food Timing and Receptor Variant on Type 2 Diabetes (R01 DK105072, NIH/NIDDK)
Role: Subcontract PI; Co-PIs: Richa Saxena, Frank A.J.L. Scheer
This research will assess the effect of coincident food intake and melatonin and the interaction effect of MTNR1B variation on glycemic control in large-scale genetic epidemiologic cohorts of natural late eaters and night shift workers.
- 2016-2018 Novel Circadian Exposure Metrics for Shift Workers (R21OH011052, NIOSH/CDC)
Role: Subcontract PI; PI: Eva S. Schernhammer
We propose to develop improved exposure metrics to better capture the occupational strain linked to work schedules, and, in particular, shift work.

Consultantship

- 2018-2019 Shedding Light on Migraine: Exploring Novel Light Metrics as a Trigger of Migraine (Migraine Research Foundation)
Role: Consultant, PI: Suzanne M. Bertisch
In this proposal, I support the derivation of light metrics in an existing data set, contribute to the interpretation of the results, and provide critical comments to the manuscript.

Teaching and Training

- 2007-2013 Introduction to Medical Psychology (24 contact hours/year, 20 undergraduate students), Medical School, LMU (D)
- 2007-2013 Medical Psychology and Sociology (24 contact hours/year, 20 undergraduate students), Medical School, LMU (D)
- 2008-2009 Neuropsychological and cognitive aspects of developmental disorders in children and adolescents (24 contact hours/semester, 30 undergraduate students), Department of Psychology, LMU (D)
- 2014 Developmental Disorders Class: Guest lecture *Circadian rhythms, Sleep and Aging* (2 contact hours), Danish Institute for Study Abroad, Copenhagen, Denmark.
- 2017 EPI 208: Introduction to Clinical Epidemiology, (3 contact hours, 6 postgraduate students), Harvard T.H. Chan School of Public Health (USA)
- 2017 IPHY 4010-810/6010-810: Sleep Medicine Seminar, Guest Lecture, 1 contact hour, University of Colorado at Boulder (USA)
- 2018 IPHY3490: Introduction to Epidemiology (67.5 contact/hours, 101 undergraduate students), University of Colorado at Boulder (USA)
- 2018 IPHY3580: Sleep, Circadian Rhythms, and Health, Guest Lecture (1.25 contact hours), University of Colorado at Boulder (USA)
- 2018/2019 IPHY5800: Advanced Statistics and Research Methods in Integrative Physiology (45 contact/hours, 25 graduate students), University of Colorado at Boulder (USA)

Mentoring

Post-doctoral Fellows

- 2016-2017 Hassan S. Dashti (Genetic Epidemiology, Co-Mentoring, Massachusetts General Hospital)
2016-2017 Susanne Strohmaier (Biostatistics, Co-Mentoring, Brigham and Women's Hospital)
2016-2017 Dorothee Fischer (Translational Epidemiology, Co-Mentoring, Harvard T.H. Chan School of Public Health)
2017 Peer-mentor to Claire Kim (Chronic Disease Epidemiology, Brigham and Women's Hospital), and Cindy Zhou (Cancer Epidemiology, Harvard T.H. Chan School of Public Health)
2017- Peer-mentor to Oana Zeleznik (Bioinformatics, Brigham and Women's Hospital)

Postgraduate Students

- 2011-2016 Lena K. Keller, MD/PhD student, Co-Mentoring, Ludwig-Maximilian-University (DE)
2013-2016 Dorothee Fischer, PhD student, Co-Mentoring, Ludwig-Maximilian-University (DE)
2013-2016 Joanna Mehlmann, PhD student, Co-Mentoring, Ludwig-Maximilian-University (DE)
2017- Iyas Daghlas, currently 2nd year Medical Student at Harvard Medical School

Undergraduate students

- Spring 2018 Akram Imam (Major: Integrative Physiology); CU Boulder
Spring 2018 - Annika Reuter (Double Major: Integrative Physiology, Spanish); CU Boulder
Spring 2018 - Connor Phibbs (Major: Integrative Physiology); CU Boulder
in summer 2018, Connor was supported by a UROP Assistantship Fellowship (\$2,000)

Volunteers in the Circadian and Sleep Epidemiology Lab (CASEL)

- 2018 Kendra Downer, Postbaccalaureat student (Integrative Physiology); CU Boulder
2018 Larissa Hunt (Major: Integrative Physiology); CU Boulder
2018- Beau J. Bentley (Major: Integrative Physiology); CU Boulder
2018- Elisa Vincentelli (Major: Integrative Physiology); CU Boulder

Honors Thesis

- 2018- Larissa Hunt (Major: Integrative Physiology); CU Boulder: "Examining eye-level light exposure patterns and human sleep behavior"

Master Thesis

- 2018- Akram Imam, CU Boulder: "Circadian phenotypes associates with MT2 receptor variant mutations"

Invited Talks

- 2010 The influence of shift schedules on psychological and chronobiological factors, Colloquium of the EKN (Research Group Neuropsychology, PI: Joachim Hermsdörfer), Clinic Bogenhausen, Munich (D).
2010 Chronobiology and Shift Work, Work Shop, Medical Faculty, University of the Philippines, Manila (PH).
2010 Work around the Clock: considering internal time in shift work research, Plenary Lecture, Department of Psychology, University of the Philippines, Diliman (PH).

- 2011 Blue-enriched light and daylight – a heavy competition, Annual meeting of the Society for Light Treatment and Biological Rhythms, Montréal (CA).
- 2012 Chronobiology and Shift Work, Plenary Lecture, 13th Meeting of the Austrian Society of Occupational Medicine (‘Wiener Forum Arbeitsmedizin’), Vienna (AU).
- 2012 Social Jetlag – A challenge for designing work schedules and health, 6th DIN Expert Panel “Effects of light on Humans”, DIN (German Standardization Institute), Berlin (D).
- 2012 Chronotype and Sleep in Shift workers / Seminar Talk, Colloquium of the Institute for Medical Biometry, Epidemiology and Informatics, Johannes-Gutenberg-University, Mainz (D).
- 2013 Alleviating the effects of shift work by considering chronotype: how new schedules may improve health, German Clock Club, Munich (D).
- 2013 The importance of light for human health, Plenary Talk, Light, Health, & Healthcare LED Conference, Department of Photonics Engineering, Technical University of Denmark, Copenhagen (DK).
- 2013 Don’t work around the clock – Reducing shift work strain with chronotype-based shift schedules?, Department of Neurology, Beth Israel Deaconess Medical Center, Boston, MA (USA).
- 2013 We are all different – Challenging current shift schedules by introducing individual chronotype, Medical Chronobiology Program, Division of Sleep Medicine, Brigham and Women’s Hospital, Boston, MA (USA).
- 2013 Examining chronotype-dependent light exposure in day workers, 7th DIN Expert Panel “Effects of light on Humans”, DIN (German Standardization Institute), Berlin (D).
- 2014 Chronotype, shift work and type 2 diabetes risk in the Nurses’ Health Study 2, Seminar of the Analytic and Modeling Unit of the Division of Sleep and Circadian Disorders (PI: Elizabeth Klerman), Department of Medicine, BWH, Boston, MA (USA).
- 2014 Clocks@Work – Concepts, Data, Mechanism, Harvard-LMU Young Investigator Forum, Cambridge, MA (USA).
- 2015 Work, Chronotype and the risk of Type 2 Diabetes in the Nurses’ Health Studies 2, Progress in Sleep Epidemiology, Division of Sleep Medicine, Brigham and Womens’ Hospital and Harvard Medical School (PI: Susan Redline), Boston, MA (US).
- 2015 Circadian Rhythms, Work and Health, Breakfast Seminar, Channing Division of Network Medicine, Boston, MA (USA).
- 2015 Shift Work and Coronary Heart Disease in the Nurses’ Health Studies, Institute Seminar, Institut für Prävention und Arbeitsmedizin (IPA) der DGUV, Ruhr-University Bochum (D)
- 2015 Work in Progress: Sleep, metabolism, and the circadian clock, Institute Seminar, Center for Clinical Epidemiology and Institute for Medical Informatics, Biometry and Epidemiology, University Clinic Essen (D)

- 2015 Re-assessing the association between rotating night shift work and coronary heart disease over 24 years of follow-up in the Nurses' Health Studies, Institute Seminar, Zentralinstitut für Arbeitsmedizin und Maritime Medizin (ZfAM), Hamburg (D)
- 2016 Rotating night shift work and risk of coronary heart disease in the Nurses' Health Studies: 24 years of follow-up, Progress in Sleep Epidemiology/Division of Sleep Medicine, Brigham and Womens' Hospital and Harvard Medical School (PI: Susan Redline), Boston, MA (USA).
- 2016 Why are we interested in chronotype when doing shift work research? Circadian rhythms, metabolism and beyond, Mini-Symposium, Brigham and Womens' Hospital and Harvard Medical School (Organizer: Frank Scheer), Boston, MA (USA).
- 2016 A Look Into the Black Box: Circadian Misalignment, and Adverse Health Outcomes in Shift Workers. Invited Talk at the Inaugural Meeting of the Chronobiology & The Brain dinner-seminar series sponsored by Harvard Brain Science Initiative (Leadership: Jonathan Lipton), Boston, MA (USA).
- 2016 Towards an integrated framework of work and health: results, metrics and future, Northwestern University, Feinberg School of Medicine, Chicago, IL (US).
- 2016 Health and Shift Work: what role can chronobiology play in disease prevention? Talk and Panel Discussion, Symposium 'Circadian Biology in Precision Medicine', SLEEP 2016, Denver, CO (USA).
- 2017 Integrating circadian, sleep, and work hours research to promote cardio-metabolic health, Invited lecture, Department of Integrative Physiology, University of Colorado, Boulder, CO (USA).
- 2017 Towards novel light metrics: a data-driven approach. Presentation at the Sleep Epidemiology Work in Progress Meeting (PI: Susan Redline), Boston (USA).
- 2017 Light exposure assessments: a data-driven approach towards reducing complexity. Presentation at the Analytic and Modelling Unit (PI: Elizabeth Klerman), Boston (USA).
- 2017 Breaking it down: A data driven approach to making sense of continuous light exposure assessments. Presentation at the Saxena Lab Meeting, Center for Genomic Medicine, Massachusetts General Hospital (PI: Richa Saxena), Boston (US).
- 2017 Choosing and Securing Your Next Position, Trainee Day Lecture, XV European Biological Rhythms Society Meeting, Amsterdam (NL).
- 2017 Towards an integrative framework of circadian shift work research, XIV Latin-American Symposium on Chronobiology, Valparaiso (CL).
- 2018 Metrics, metrics, metrics: Considering new ways to quantify circadian and sleep exposures, Sleepyhead Meeting (PI: Edward Melanson), UC Denver Medical School, Denver, CO (USA).
- 2018 Rhythms and Health: A short story of complex signals, Departmental Seminar, Information Science, University of Colorado, Boulder, CO (USA).
- 2018 Implementations in Clinic and Society, Invited Statement at the Symposium "The Role of Circadian Biology in Preventing and Treating Pathologies" (Organizer: Till Roenneberg), Munich (D)

- 2018 Zeitgebers, Entrainment, and Health, Invited Talk for the Symposium “Therapeutic Strategies Targeting Circadian Rhythms” at the Society for Research on Biological Rhythms meeting, Amelia Island (USA).
- 2018 Sleep, Genetic Risk, and Coronary Health in the UK Biobank, Invited Talk at the 5th Annual Colorado Sleep and Circadian Research Symposium, Boulder (USA).
- 2018 The impact of shift work on health, Invited Lecture at the 1st Fatigue Transportation Forum, Transport Canada, McGill University, Montreal (CA).

Selected Abstracts and Symposia Presentations

- 2010 Cognitive Performance in Shift Workers, Congress of the Société Francophile de Chronobiologie, Colle de Loup (F).
- 2011 Linking Sleep Timing and Obesity, Congress of the European Biological Rhythms Society, Oxford (UK).
- 2013 Shift Work, Sleep, and Health: what do we know, what evidence do we need?, Introduction to the Symposium (Role: Chair) selected by the Program Committee of the 2013 European Biological Rhythms Society, Munich (D).
- 2014 Consequences of Circadian Disruption, Introduction to the Symposium (Role: Chair) selected by the Program Committee of the 2014 Conference of the Society for Research on Biological Rhythms, Big Sky, MO (US).
- 2014 Chronotype, shift work and type 2 diabetes, New England Clock Club, University of Massachusetts, Worcester, MA (US).
- 2015 Mismatch of sleep and work hours and the risk of type 2 diabetes, 22nd International Symposium on Shiftwork and Working Times, Elsinore (DK).
- 2015 Work hours: Risk factors for motor-vehicle incidents in resident physicians?, 22nd International Symposium on Shiftwork and Working Times, Elsinore (DK).
- 2016 Long weekly work hours increase the risk of adverse health and safety outcomes in 1st year and more experienced resident physicians, Society for Research on Biological Rhythms Meeting, Innisbrook, FL (USA).
- 2016 Exploring how individual and work characteristics are associated with chronic disease risk: Results from the Nurses’ Health Study II, Strategies for the prevention of the health effects of shift work Symposium at EPICOH (Epidemiology in Occupational Health Conference), Barcelona (ES).
- 2017 Shift Work and Type 2 Diabetes in the UK Biobank, SLEEP, Boston, MA (US).
- 2017 Shift Work and Type 2 Diabetes in the UK Biobank, 23rd International Symposium on Shiftwork and Working Time, Ayers Rock/Uluru (AUS)
- 2017 Developing exposure metrics using a prospective repository of work hours, sleep, and circadian phenotypes: the Nurses’ Health Study 3, 23rd International Symposium on Shiftwork and Working Time, Ayers Rock/Uluru (AUS).
- 2017 Light exposure assessments in the real world: a data-driven path towards reducing complexity, Symposium: Entrainment and Sleep in the real world (Role: Co-Chair), XV European Biological Rhythms Society Meeting, Amsterdam (NL).

Outreach and Community Service

- 2011 Health Awareness Days: 2-hour interactive lecture about chronobiology, chronotype, sleep, health and adolescence for pupils aged 16 to 19 years, Sophie Scholl Secondary School, Munich (D).
- 2015 Expert speaker in “Light and Health” workshop, ABX (Architecture Boston Expo)
- 2015 All about Sleep, Public Lecture, Lecture Series “Prevention for a healthy life”, Institute of Prevention and Tumor Epidemiology, University of Freiburg (D).
- 2017 Invited Panel Discussion Member, Harvard Catalyst Course ‘Maximizing the Mentee-Mentor Relationship’ (Organizers Dr. Francine Grodstein and Dr. Frederick Schoen), Boston, MA (US).
- 2017 Circadian rhythms and health, Public Lecture, XIV Latin-American Symposium on Chronobiology, Valparaiso (CL).

Scholarship

Original Research Articles

1. El Sharkawy J*, Groth K*, **Vetter C***, Beraldi A, Fast K. False memories of emotional and neutral words. *Behav Neurol.* 2008;19(1-2):7-11. PMID: 18413909; PMCID: PMC5452470. *Co-first authors
2. Peres I, **Vetter C**, Blautzik J, Reiser M, Pöppel E, Meindl T, Roenneberg T, Gutyrchik E. Chronotype predicts activity patterns in the neural underpinnings of the motor system during the day. *Chronobiol Int.* 2011 Dec;28(10):883-9. doi: 10.3109/07420528.2011.619084. PMID: 22080733.
3. **Vetter C**, Juda M, Lang D, Wojtysiak A, Roenneberg T. Blue-enriched office light competes with natural light as a zeitgeber. *Scand J Work Environ Health.* 2011 Sep;37(5):437-45. doi: 10.5271/sjweh.3144. PMID: 21246176.
4. Roenneberg T, Allebrandt KV, Mellow M, **Vetter C**. Social jetlag and obesity. *Curr Biol.* 2012 May 22;22(10):939-43. doi: 10.1016/j.cub.2012.03.038. Erratum in: *Curr Biol.* 2013 Apr 22;23(8):737. PMID: 22578422.
5. **Vetter C**, Juda M, Roenneberg T. The influence of internal time, time awake, and sleep duration on cognitive performance in shiftworkers. *Chronobiol Int.* 2012 Oct;29(8):1127-38. doi: 10.3109/07420528.2012.707999. PMID: 22888791.
6. Juda M, **Vetter C**, Roenneberg T. Chronotype modulates sleep duration, sleep quality, and social jet lag in shift-workers. *J Biol Rhythms.* 2013 Apr;28(2):141-51. doi: 10.1177/0748730412475042. PMID: 23606613.
7. Juda M*, **Vetter C***, Roenneberg T. The Munich ChronoType Questionnaire for Shift-Workers (MCTQShift). *J Biol Rhythms.* 2013 Apr;28(2):130-40. doi: 10.1177/0748730412475041. PMID: 23606612. *Co-first authors
8. Blautzik J, **Vetter C**, Peres I, Gutyrchik E, Keeser D, Berman A, Kirsch V, Mueller S, Pöppel E, Reiser M, Roenneberg T, Meindl T. Classifying fMRI-derived resting-state connectivity patterns according to their daily rhythmicity. *Neuroimage.* 2013 May 1;71:298-306. doi: 10.1016/j.neuroimage.2012.08.010. PMID: 22906784.
9. Kitamura S, Hida A, Aritake S, Higuchi S, Enomoto M, Kato M, **Vetter C**, Roenneberg T, Mishima K. Validity of the Japanese version of the Munich ChronoType Questionnaire. *Chronobiol Int.* 2014 Aug;31(7):845-50. doi: 10.3109/07420528.2014.914035. PMID: 24824747.
10. Blautzik J, **Vetter C**, Schneider A, Gutyrchik E, Reinisch V, Keeser D, Paolini M, Pöppel E, Bao Y, Reiser M, Roenneberg T, Meindl T. Dysregulated daily rhythmicity of neuronal

- resting-state networks in MCI patients. *Chronobiol Int*. 2014 Nov;31(9):1041-50. doi: 10.3109/07420528.2014.944618. PMID: 25099642.
11. Hölzle P, Hermsdörfer J, **Vetter C**. The effects of shift work and time of day on fine motor control during handwriting. *Ergonomics*. 2014;57(10):1488-98. doi: 10.1080/00140139.2014.935746. PMID: 25026215.
 12. Lombardi DA, Jin K, **Vetter C**, Courtney TK, Folkard S, Arlinghaus A, Liang Y, Perry MJ. The impact of shift starting time on sleep duration, sleep quality, and alertness prior to injury in the People's Republic of China. *Chronobiol Int*. 2014 Dec;31(10):1201-8. doi: 10.3109/07420528.2014.957303. PMID: 25216207.
 13. **Vetter C**, Fischer D, Matera JL, Roenneberg T. Aligning work and circadian time in shift workers improves sleep and reduces circadian disruption. *Curr Biol*. 2015 Mar 30;25(7):907-11. doi: 10.1016/j.cub.2015.01.064. PMID: 25772446.
 14. **Vetter C**, Devore EE, Ramin CA, Speizer FE, Willett WC, Schernhammer ES. Mismatch of Sleep and Work Timing and Risk of Type 2 Diabetes. *Diabetes Care*. 2015 Sep;38(9):1707-13. doi: 10.2337/dc15-0302. PMID: 26109502; PMCID: PMC4542269.
 15. van de Ven HA, van der Klink JJ, **Vetter C**, Roenneberg T, Gordijn M, Koolhaas W, de Looze MP, Brouwer S, Bültmann U. Sleep and need for recovery in shift workers: do chronotype and age matter? *Ergonomics*. 2016;59(2):310-24. doi: 10.1080/00140139.2015.1058426. PMID: 26241633.
 16. Fischer D, **Vetter C**, Oberlinner C, Wegener S, Roenneberg T. A unique, fast-forwards rotating schedule with 12-h long shifts prevents chronic sleep debt. *Chronobiol Int*. 2016;33(1):98-107. doi: 10.3109/07420528.2015.1113986. PMID: 26745752.
 17. Yong M, Fischer D, Germann C, Lang S, **Vetter C**, Oberlinner C. Are chronotype, social jetlag and sleep duration associated with health measured by Work Ability Index? *Chronobiol Int*. 2016;33(6):721-9. doi: 10.3109/07420528.2016.1167728. PMID: 27092579.
 18. **Vetter C**, Devore EE, Wegrzyn LR, Massa J, Speizer FE, Kawachi I, Rosner B, Stampfer MJ, Schernhammer ES. Association Between Rotating Night Shift Work and Risk of Coronary Heart Disease Among Women. *JAMA*. 2016 Apr 26;315(16):1726-34. doi: 10.1001/jama.2016.4454. PubMed PMID: 27115377; PMCID: PMC5102147.
 19. Fischer D, **Vetter C**, Roenneberg T. A novel method to visualise and quantify circadian misalignment. *Sci Rep*. 2016 Dec 8;6:38601. doi: 10.1038/srep38601. PMID: 27929109; PMCID: PMC5144069.
 20. Keller LK, Grünewald B, **Vetter C**, Roenneberg T, Schulte-Körne G. Not later, but longer: sleep, chronotype and light exposure in adolescents with remitted depression compared to healthy controls. *Eur Child Adolesc Psychiatry*. 2017 Mar 29. doi: 10.1007/s00787-017-0977-z. PMID: 28357513.
 21. von Schnurbein J, Boettcher C, Brandt S, Karges B, Dunstheimer D, Galler A, Denzer C, Denzer F, Vollbach H, Wabitsch M, Roenneberg T, **Vetter C**. Sleep and glycemic control in adolescents with type 1 diabetes. *Pediatr Diabetes*. 2017 Jun 14. doi: 10.1111/pedi.12538. PMID: 28880049.
 22. Huang T, Poole EM, **Vetter C**, Rexrode KM, Kubzansky LD, Schernhammer E, Rohleder N, Hu FB, Redline S, Tworoger SS. Habitual sleep quality and diurnal rhythms of salivary cortisol and dehydroepiandrosterone in postmenopausal women. *Psychoneuroendocrinology*. 2017 Oct;84:172-180. doi: 10.1016/j.psyneuen.2017.07.484. PMID: 28738312; PMCID: PMC5561416.
 23. **Vetter C***, Dashti HS*, Lane JM, Anderson SG, Schernhammer ES, Rutter MK, Saxena R, Scheer FAJL. (2018). Night Shift Work, Genetic Risk, and Type 2 Diabetes in the UK Biobank. *Diabetes Care*. doi: 10.2337/dc17-1933. PMID: 29440150. *Co-first authors

24. VoPham T*, Weaver MD*, **Vetter C**, Hart JE, Tamimi RE, Laden F, Bertrand KA. Circadian misalignment and hepatocellular carcinoma incidence in the United States. In Press. *Cancer Epidemiology, Biomarkers & Prevention*. *Co-first authors
25. Cordani L, Tagliazucchi E, **Vetter C**, Hassemer C, Roenneberg T, Stehle J, Kell CA. Endogenous Modulation of Human Visual Cortex Activity Improves Perception at Twilight. In Press. *Nature Communications*. DOI: 10.1038/s41467-018-03660-8.
26. **Vetter C**, Chang SC, Devore EE, Rohrer F, Okereke OI, Schernhammer ES. Prospective study of chronotype and incident depression among middle- and older-aged women in the Nurses' Health Study II. *Journal of Psychiatric Research*. 2018 Aug;103:156-160. doi: 10.1016/j.jpsychires.2018.05.022. PMID: 29860110; PMCID: PMC6016366.
27. Papantoniou K, Devore EE, Massa J, Strohmaier S, **Vetter C**, Yang L, Shi Y, Giovannucci E, Speizer F, Schernhammer ES. Rotating Night Shift work and Colorectal Cancer Risk in the Nurses' Health Studies. *Int J Cancer*. 2018 Jul 6. doi: 10.1002/ijc.31655. PMID: 29978466.
28. Weaver MD, **Vetter C**, Rajaratnam SMW, O'Brien CS, Qadri S, Benca RM, Rogers AE, Leary EB, Walsh JK, Czeisler CA, Barger LK (in press). Symptoms of sleep disorders, depression, and anxiety are associated with adverse safety outcomes in healthcare workers. *Journal of Sleep Research*.
29. Strohmaier S, Devore EE, **Vetter C**, Missmer S, Eliassen AH, Rosner B, Rich-Edwards J, Field AE, Schernhammer ES (in press). Night Shift Work Before and During Pregnancy and Offspring Weight Outcomes Through Adolescence. *Obesity*.

Reviews, Chapters, Monographs, and Editorials

1. Kantermann, T., Juda, M., **Vetter, C.**, & Roenneberg, T. *Shift-work research: Where do we stand, where do we go?* *Sleep Biol Rhythms*. 2011;8:95-105.
2. **Vetter, C.** 2011. Clocks in Action: Exploring the impact of internal time in real life. http://edoc.ub.uni-muenchen.de/12749/1/Vetter_Celine.pdf
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14. **Vetter, C.** & Roenneberg, T. (2017). Der Münchner Chronotyp Fragebogen (Munich ChronoType Questionnaire, MCTQ) zur Bestimmung des Chronotyps bei Jugendlichen und Erwachsenen. (engl., Assessing chronotype in adolescents and adults with the Munich ChronoType Questionnaire, MCTQ). In: Schulz, G., Geisler, P., & Rodenbeck, A. (Eds.) *Kompendium Schlafmedizin* (engl., Compendium Sleep Medicine), ecomed Medizin Verlag, Germany.
15. **Vetter, C.**, Winnebeck, E.C., & Roenneberg, T. (in press). Asking the clock: circadian information from questionnaires. in: Brown, S. (Ed.) *Methods in Molecular Biology*.

Abstracts, Poster Presentations, and Exhibits Presented at Professional Meetings (last 5 years)

1. Keller, L.K., Grünewald, B., **Vetter, C.**, Roenneberg, T., & Schulte-Körne, G. (07/2013). *Chronobiology, Sleep and Depression in Adolescents*, 15th International Congress of the European Society for Child and Adolescent Psychiatry (ESCAP), Dublin, IRE.
2. Keller, L.K., **Vetter, C.**, Grünewald, B., Schulte-Körne, G., & Roenneberg, T. (08/2013). *Internal Time, Sleep and Depression in Adolescents*. XIII. European Biological Rhythms Society (EBRS) Congress, Munich, DE.
3. Wiegand, S., Kühnen, P., Ernert, A., Bau, A.M., **Vetter, C.**, Roenneberg, T., & Krude, H. (09/2013). *Seasonality of menarche in normal weight and obese school children*. 9th Joint Meeting of Paediatric Endocrinology (ESPE), Milan, IT.
4. Mehlmann, J., Fischer, D., **Vetter, C.**, & Roenneberg, T. (11/2013). *The effect of chronotype on strategic sleep behaviour in shift workers*. 21st International Symposium on Shiftwork and Working Time, Bahia, BRA.
5. Fischer, D., Mehlmann, J.L., Roenneberg, T., & **Vetter, C.** (11/2013). *Less is more? Quantifying the impact of consecutive shifts on the circadian clock in rotational work schedules*. 21st International Symposium on Shiftwork and Working Time, Bahia, BRA.
6. Mehlmann, J.L., Fischer, D., **Vetter, C.**, & Roenneberg, T. (09/2014). *Chronotype-dependent nap behavior in shift workers*. 22nd Congress of the European Sleep Research Society, Tallinn, EST.
7. Keller, L.K., Zöschg, S., Grünewald, B., **Vetter, C.**, Roenneberg, T., & Schulte-Körne, G. (03/2015). Lichttherapie zur Behandlung depressiver Symptome bei Jugendlichen mit psychiatrischen Störungen: Ergebnisse einer randomisiert-kontrollierten

- Interventionsstudie [engl. *Light therapy to treat depressive symptoms in an adolescent psychiatric population: results of a randomized intervention study*]. 34th Congress of the German Pediatric Psychiatry Association (DGKJP), Munich, DE.
8. Gärtner, J., Arlinghaus, A., **Vetter, C.**, Wong, I., & Folkard, S. (06/2015). *Modeling physicians' error risk in hospitals as a function of workload and shift length*. 22nd International Symposium on Shiftwork and Working Times, Elsinore, Denmark.
 9. Yong, M., Fischer, D., Germann, C., Lang, S., Oberlinner, C., & **Vetter, C.** (2016). Schlaf und Metabolisches Syndrom (engl. *Sleep and Metabolic Syndrome*). 56th Congress of the German Occupational Health Organization, Munich, DE.
 10. Brendler, C., Backé, E., **Vetter, C.**, van Mark, A., & Latza, U. (2016). Schichtarbeit und Herz-Kreislauf-Erkrankungen – was lässt sich aus Studien, die den Zusammenhang zwischen frühen funktionellen Veränderungen, ableiten? (engl. *Shift work and Cardiovascular Disease – what can we learn from studies examining early functional changes?*). 56th Congress of the German Occupational Health Organization, Munich, DE.
 11. Winnebeck, E., Fischer, D., Hidalgo, M.P., Kantermann, T., Keller, L.K., Levandovski, R., Matera, J.L., Pilz, L.K., **Vetter, C.**, & Roenneberg, T. (2016). *Ultradian rhythms of locomotor (in)activity in a real-world sample of 120,000 hours of human sleep*. 2016 SRBR Meeting, Innisbrook, Florida, US.
 12. **Vetter, C.**, Chang, S.-C., Devore, E.E., Rohrer, F., Okereke, O.I., & Schernhammer, E.S. (2016). *A prospective study of rotating night shift work and incident depression in the Nurses' Health Study 2*. 2016 SRBR Meeting, Innisbrook, Florida, US.
 13. Fischer, D., Matera, J.L., Wulff, K., Van Dycke, K.C.G., van der Horst, G.T.J., van Steeg, H., Foster, R.G., Keller, L.K., **Vetter, C.**, & Roenneberg, T. (2016). *'Of islands and pancakes': a novel method to quantify and visualize mistimed rhythms*. 2016 SRBR Meeting, Innisbrook, Florida, US.
 14. Huang, T., Poole, E., Redline, S., Rexrode, K., Kubzansky, L., Schernhammer, E.S., **Vetter, C.**, Hu, F., & Tworoger, S. (2016). *Habitual sleep quality and diurnal rhythm of saliva cortisol and DHEA*. Scientific Sessions of the Annual Meeting of the American Heart Association, New Orleans, LO, US.
 15. Papantoniou, K., Wegrzyn, L.R., Strohmaier, S., **Vetter, C.**, Massa, J., Devore, E., & Schernhammer, S. (2016). *Rotating night shift work and colorectal cancer risk in the Nurses' Health Study (NHS) and NHS II*. EPICOH Epidemiology in Occupational Health Conference, Barcelona, ES.
 16. **Vetter, C.**, Chang, S.-C., Devore, E.E., Rohrer, F., Okereke, O.I., & Schernhammer, E.S. (2016). *A prospective study of rotating night shift work and incident depression in the Nurses' Health Study 2*. EPICOH Epidemiology in Occupational Health Conference, Barcelona, ES.
 17. Rabstein, S., Gawrych, K., Lehnert, M., Beine, A., Walther, J., Putzke, S., Gross, U., Heinze, E., Kleefisch, D., Fleischmann, J., Wang-Sattler, R., Rotter, M., Harth, V., **Vetter, C.**, Kantermann, T., Roenneberg, T., Pallapies, D., Behrens, T., Brüning, T. (2017). Individuelle Blaulich-Exposition bei Tag- und Nachtschichten in der IPA-Feldstudie zu Schichtarbeit (engl. *Individual exposure to short wavelength light during day and night shifts: results from the IPA field study of shift work*). Conference of the German Society for Occupational and Environmental Medicine (DGAUM), Hamburg, DE.
 18. Gawrych, K., Rabstein, S., Lehnert, M., Beine, A., Walther, J., Putzke, S., Gross, U., Heinze, E., Kleefisch, D., Fleischmann, J., Wang-Sattler, R., Rotter, M., Harth, V., **Vetter, C.**, Kantermann, T., Roenneberg, T., Pallapies, D., Behrens, T., Brüning, T. (2017). Untersuchung zur Rolle des Chronotyps für die Cortisol-Aufwachreaktion in der IPA Feldstudie zu Schichtarbeit (engl. *The effect of chronotype on morning cortisol levels in the IPA field shift work study*). Conference of the German Society for Occupational and

Environmental Medicine (DGAUM), Hamburg, DE.

19. Gawrych, K., Rabstein, S., Lehnert, M., Beine, A., Walther, J., Putzke, S., Gross, U., Heinze, E., Kleefisch, D., Fleischmann, J., Wang-Sattler, R., Rotter, M., Harth, V., **Vetter, C.**, Kantermann, T., Roenneberg, T., Pallapies, D., Behrens, T., Brüning, T. (2017). *The cortisol awakening response in shift working female hospital staff with respect to chronotype*. 23rd International Symposium on Shift Work and Working Time, Ayers Rock, AUS.
20. Arlinghaus, A., Gärtner, J., Rabstein, S., Schief, S., & **Vetter, C.** (2017). *Permanent night work – a consensus paper of the German-speaking Working Time Society*. 23rd International Symposium on Shift Work and Working Time, Ayers Rock, AUS.
21. Phillips, A.J.K., Fischer, D., Butler, J.P., St. Hilaire, M., Roenneberg, T., Klerman, E.B., **Vetter, C.** (2017). *Applying a new physiologically-based model for predicting sleep and cognitive performance under conditions of chronic sleep restriction and circadian misalignment*. 23rd International Symposium on Shift Work and Working Time, Ayers Rock, AUS.
22. Barger L.K., Wang, W., Weaver, M.D., Sullivan, J.P., **Vetter, C.**, O'Brien, C.S., Qadri, S., Landrigan, C.P., & Czeisler C.A. (2017). *Increased risk of adverse safety outcomes in PGY1 residents working 16-hour shifts*. American Professional Sleep Society, Boston, US.
23. Weaver, M.D., Sullivan, J.P., Wang, W., **Vetter, C.**, O'Brien, C.S., Qadri, S., Landrigan, C.P., Czeisler, C.A., & Barger, L.K. (2017). *Work Hour Policies Are Associated with Medical Resident Sleep, Health And Wellness*. American Professional Sleep Society, Boston, US.
24. Weaver, M.D., Sullivan, J.P., Wang, W., **Vetter, C.**, O'Brien, C.S., Qadri, S., Landrigan, C.P., Czeisler, C.A., & Barger, L.K. (2017). *Fewer extended duration shifts are associated with fewer motor vehicle crashes, medical errors and improved medical education*. American Professional Sleep Society, Boston, US.
25. Kuehnen, P., **Vetter, C.**, Jessen, E., Roenneberg, T., Lisenkoettter, K.-P., Neumann, U., Lankes, E., Werner, H., Jenni, O.G., von Schnurbein, J., Wiegand, S., Krude, H. (2017). *Analysis of sleep-wake behavior in patients with precocious and delayed puberty*. 10th International Meeting of Pediatric Endocrinology, Washington, D.C., US.
26. Von Schnurbein, J., Boettcher, C., Brandt, S., Karges, B., Dunstheimer, D., Galler, A., Denzer, C., Denzer, F., Vollbach, H., Wabitsch, M., Roenneberg, T., **Vetter, C.** (2017). *Sleep and glycemic control in adolescents with Type 1 Diabetes*. 10th International Meeting of Pediatric Endocrinology, Washington, D.C., US.
27. Dashti, H.S., **Vetter, C.**, Rutter, M.K., Scheer, F.A.J.L., Saxena, R. (2017). *Night shift work, MTNR1B Common Genetic Variant ad Type 2 Diabetes: findings from the UK Biobank*. 76th Scientific Sessions of the American Diabetes Association, New Orleans, LO, US.
28. Papantoniou, K., Massa, J., **Vetter, C.**, Schernhammer, E.S. (2017). *Rotating night shift work and multiple sclerosis in the Nurses' Health Study (NHS) and NHS II*. XV European Biological Rhythms Society Meeting, Amsterdam, NL.
29. Papantoniou, K., Massa, J., **Vetter, C.**, Munger, K., Ascherio, A., & Schernhammer, E.S. (2017). *Rotating night shift work and multiple sclerosis in the Nurses' Health Study (NHS) and NHSII*. XV. European Biological Rhythms Society Meeting, Amsterdam, NL.
30. Weinmann, T., **Vetter, C.**, Karch, S., Nowak, D., & Radon, K. (2018). *Pilotstudie zum Projekt Schichtarbeit, Schlafstörungen, und kognitive Beeinträchtigungen im Alter (SASKIA Pilot) (engl. Shift Work, Sleep Disorders, and cognitive Impairment in the Elderly: A pilot study)*. Conference of the German Society for Occupational and Environmental Medicine (DGAUM), Munich, DE.
31. Weaver M.D., Sullivan J.P., O'Brien C.S., Qadri S., Viyaran N, Wang W., **Vetter C.**,

- Landrigan C.P., Czeisler C.A., Barger L.K. (2018). Effects of policy prohibiting extended shifts on patient and resident physician safety. American Professional Sleep Society, Baltimore
32. Premdayal A.D., Anderson S.G., Dashti H.S., Bowden J., Vetter C., Kyle S.D., Bechtold D.A., Saxena R., Lawlor D.A., Rutter, M.K. (2018). Sleep traits predict incident type 2 diabetes independently of QDiabetes risk factors in UK Biobank participants, Diabetes UK Professional Conference, London, UK.
33. Weaver M.D., Sullivan J.P., O'Brien C.S., Qadri S, Viyaran N, Wang W, Vetter C., Landrigan C.P., Czeisler C.A., Barger L.K. (2018). Effects of policy prohibiting extended shifts on patient and resident physician safety. SLEEP, Baltimore, USA.
34. VoPham T., Weaver M.D., Vetter C., Hart J.E., Tamimi R.M., Schernhammer E.S., Bertrand K.A., Laden F. (2018). Residential position in a time zone and breast cancer risk in the United States. International Society of Exposure Science and International Society for Environmental Epidemiology (ISES-ISEE), Ottawa, CA.

In the media: *Selection of national and international news coverage*

Journal of Psychiatric Research (2018): Prospective study of chronotype and incident depression among middle- and older-aged women in the Nurses' Health Study II. Mentions in 32 news outlets, 6 blogs, and 205 tweeters. *Altametrics: 454*

Selected Coverage:

<https://www.nytimes.com/2018/06/20/well/depression-sleep-chronotype-circadian-rhythm.html>
https://www.huffingtonpost.ca/2018/06/15/sleep-depression_a_23459878/
<https://bigthink.com/stephen-johnson/study-women-who-wake-up-early-less-likely-to-develop-depression>

Diabetes Care (2018): Shift work, genetic risk, and type 2 diabetes in the UK Biobank. Mentions in 14 news outlets, 3 blogs, and 165 tweeters. *Altametrics: 235*

Selected Coverage:

<https://www.colorado.edu/today/2018/02/12/frequent-night-shift-work-boosts-likelihood-type-2-diabetes>
<https://www.nytimes.com/2018/02/21/well/working-nights-may-raise-diabetes-risk.html>

JAMA article (2016): Association Between Rotating Night Shift Work and Risk of Coronary Heart Disease Among Women. Mentions in 28 media outlets, 6 blogs, and 231 tweets. *Altametrics:400*

JAMA Author videos:


<http://jama.jamanetwork.com/multimediaPlayer.aspx?mediaid=12758547>
<http://jama.jamanetwork.com/multimediaPlayer.aspx?mediaid=12758549>

Other selected coverage of this publication

<http://www.reuters.com/article/us-health-shifts-heart-idUSKCN0XN2TX>
<http://www.medpagetoday.com/Cardiology/MyocardialInfarction/57552>
<http://medicalxpress.com/news/2016-04-coronary-heart-disease-womenrotating>
<http://www.scientificamerican.com/article/rotating-night-shifts-tied-to-heartdisease-risk/>

Current Biology 2015: Aligning Work and Circadian Time in Shift Workers improves Sleep and reduces Circadian Misalignment. Coverage in more than 9 media outlets, 2 blogs, 31 tweets and more. *Altametrics:108*

Current Biology (2012): Social Jetlag and Obesity. Coverage in more than 45 media outlets, 10 blogs, 49 tweets and more. *Altametrics:400*

A handwritten signature in blue ink, appearing to read 'Colin HHS'.