

# Curriculum Vitae

## Personal information

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**Dr. sc. nat. Clarissa Daniela Vögel**

Date of birth: 14.06.1992

Nationality: Austrian

## Education

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2022 **PhD (Dr. sc. nat)**, University of Zurich, Zurich Institute of Forensic Medicine, Switzerland

2018 **Master in Chemistry**, University of Zurich, Switzerland

2016 **Bachelor in Chemistry**, University of Zurich, Switzerland

## Academical degrees

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2018 – 2022 **PhD thesis**, Zurich Institute of Forensic Medicine (Prof. Dr. Thomas Krämer, PD Dr. Tina Binz), University of Zurich, Switzerland

*“Steroid and Endocannabinoid Profiling in Hair and Nails - From Analytical Method Development to Applications in Neuropsychopharmacological Research”*

2017 **Master thesis**, Zurich Institute of Forensic Medicine (Prof. Dr. Thomas Krämer, PD Dr. Tina Binz), University of Zurich, Switzerland

*“Steroid Hormone Profiling in Human Hair, Nails and Saliva with Liquid Chromatography-Tandem Mass Spectrometry”*

## Working & Teaching Experience

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Since 2022 **Head of Steroid Analysis**, Div. of Nephrology and Hypertension, Inselspital Bern

2018 – 2022 **Forensic Toxicologist**, Zurich Institute of Forensic Medicine, University of Zurich

2020 – 2021 **Teaching Assistant** in forensic toxicology, Zurich Institute of Forensic Medicine, University of Zurich

2016 - 2019 **Teaching Assistant** in organic chemistry and inorganic chemistry, Department of Chemistry, University of Zurich

## Scientific Presentations

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2022 Poster presentation at the annual meeting of the Swiss Society of Neonatology, Biel, Switzerland  
*“Endocannabinoid and steroid analysis in nails of infants and adults”*

2021 Flash poster presentation at the SGMS & SMS Meeting, Beatenberg, Switzerland  
*“A combined analytical approach for the quantification of stress markers and drugs in hair of cocaine users by LC-MS/MS”*

2021 Oral presentation at the SOHT Conference, Santiago de Compostela, Spain  
*“Alterations of stress-related glucocorticoids and endocannabinoids in hair of chronic cocaine users”*

2020 Oral presentation at the online workshop “Endocrinological and Toxicological Hair Testing in Psychological and Psychiatric Research”  
*“Stress and drugs – hidden secrets revealed by forensic hair analysis”*

2019 Oral presentation at the SGMS Meeting, Beatenberg, Switzerland

*“Quantification of endocannabinoids and steroid hormones in human hair – LC-MS/MS method development and validation”*

2019 Oral presentation at the SOHT Meeting, Lille, France

*“Endogenous steroid profiling in hair & nails with a newly developed LC-MS/MS method”*

2018 Poster presentation at the SGMS Meeting, Beatenberg, Switzerland

*“Steroid Hormone Profiling in Fingernails with LC-MS/MS Using <sup>13</sup>C<sub>3</sub>-labeled Surrogate Analytes”*

### **Awards & Grants**

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2021 Best Oral Presentation Award from the Society of Hair Testing (SOHT): 300 Euro

2021 Travel Grant from Swiss Group for Mass Spectrometry (SGMS): 500 CHF

2020 Research Grant from the University of Zurich, Forschungskredit “Candoc” (FK-20-041):  
50 000 CHF

2019 Travel Grant from Society of Hair Testing (SOHT): 1000 Euro

### **Memberships & Scientific Reviewing Activities**

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SOHT Society of Hair Testing

SGMS Swiss Group for Mass Spectrometry

Scientific reviewer for Critical Reviews in Clinical Laboratory Sciences, Psychoneuroendocrinology, Steroids

### **Publication list**

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**Link to my publications:**

<https://orcid.org/0000-0002-5480-7956>

1. **C.D. Voegel\***, S. L. Kroll\*, M. W. Schmid, A.-K. Kexel, M. R. Baumgartner, T. Kraemer, T. M. Binz, B. B. Quednow, Alterations of stress-related glucocorticoids and endocannabinoids in hair of chronic cocaine users. *Int. J. Neuropsychopharmacol.* (2021) <https://doi.org/10.1093/ijnp/pyab070>
2. D.A. Dornbierer, F. Yerlikaya, R. Wespi, M.I. Boxler, **C.D. Voegel**, L. Schnider, A. Arslan, D.M. Baur, M.R. Baumgartner, T.M. Binz, T. Kraemer, H.-P. Landolt, A Novel Bedtime Pulsatile-Release Caffeine Formula Ameliorates Sleep Inertia Symptoms Immediately Upon Awakening, *Sci Rep.* (2021) 1, 19734 <https://doi.org/10.1038/s41598-021-98376-z>
3. M. Stucki\*, **C.D. Voegel\***, T.M. Binz, T. Kraemer, A. Lavaud, K. Voelter, Systemic detectability of dexamethasone and prednisolone after eye drop application in horses, *Equine Vet J.* (2021) 00: 1–7. <https://doi.org/10.1111/evj.13418>
4. **C.D. Voegel**, M.R. Baumgartner, T. Kraemer, S. Wüst, T.M. Binz, Simultaneous quantification of steroid hormones and endocannabinoids (ECs) in human hair using an automated supported liquid extraction (SLE) and LC-MS/MS – Insights into EC baseline values and correlation to steroid concentrations. *Talanta* 222 (2021) 121499, <https://doi.org/10.1016/j.talanta.2020.121499>
5. J.H. Lanfear, **C.D. Voegel**, T.M. Binz, R.A. Paul, Hair cortisol measurement in older adults: Influence of demographic and physiological factors and correlation of perceived stress. *Steroids* (2020) 163:108712. <https://doi.org/10.1016/j.steroids.2020.108712>

6. **C.D. Voegel**, M. Hofmann, T. Kraemer, M.R. Baumgartner, T.M. Binz, Endogenous steroid hormones in hair: Investigations on different hair types, pigmentation effects and correlation to nails. *Steroids* 154 (2020) 108547. <https://doi.org/10.1016/j.steroids.2019.108547>
7. **C.D. Voegel**, P. La Marca-Ghaemmaghami, M. Hofmann, M.-R. Baumgartner, T. Kraemer, T.M. Binz, Endogenous steroid profiling in hair and nails with a newly developed LC-MS/MS method, *Toxicologie Analytique et Clinique* 31 (2019), S23-S24. <https://doi.org/10.1016/j.toxac.2019.03.023>
8. D.A. Dornbierer, M. Boxler, **C.D. Voegel**, B. Stucky, A.E. Steuer, T.M. Binz, M.R. Baumgartner, D.M. Baur, B.B. Quednow, T. Kraemer, E. Seifritz, H.P. Landolt, O.G. Bosch, Nocturnal Gamma-Hydroxybutyrate Reduces Cortisol-Awakening Response and Morning Kynurenine Pathway Metabolites in Healthy Volunteers. *Int J Neuropsychopharmacol.* 22 (2019) 631-639. <https://doi.org/10.1093/ijnp/pyz047>
9. **C.D. Voegel**, P. La Marca-Ghaemmaghami, U. Ehlert, M.R. Baumgartner, T. Kraemer, T.M. Binz, Steroid profiling in nails using liquid chromatography-tandem mass spectrometry. *Steroids* 140 (2018) 144-150. <https://doi.org/10.1016/j.steroids.2018.09.015>
10. T.M. Binz, F. Gaehler, **C.D. Voegel**, M. Hofmann, M.R. Baumgartner, T. Kraemer, Systematic investigations of endogenous cortisol and cortisone in nails by LC-MS/MS and correlation to hair, *Anal Bioanal Chem* 410, 4895–4903 (2018). <https://doi.org/10.1007/s00216-018-1131-6>

\*shared first authorship