



### HypoTRAIN conference contributions

First author	Co-authors	Conference	Date	Venue	Poster /Talk	Title
Andrea Popp	M. Brennwald, R. Kipfer	IBP PhD congress	Apr 16	ETH Zurich, Switzerland	Poster	Noble gases in groundwater research
Andrea Popp	M. Brennwald, R. Kipfer	D.I.N.G.U.E.	Apr 16	Nancy, France	Poster	Using dissolved gases to determine groundwater origin
Andrea Betterle	M. Schirmer, G. Botter	EGU 2016	Apr 16	Vienna, Austria	Talk	Analytical Characterization of the Spatial Correlation of streamflows
Morteza Mojarrad	A. Wörman, J. Riml	EGU 2016	Apr 16	Vienna, Austria	Poster	Hyporheic flow pattern based on the coupling of regional and stream scales: Case of Krycklan Catchment Area
Chiara Magliozzi	R. Grabowski, M. Janes	The River Restoration Conference 2016	Apr 16	Blackpool UK	Poster	The importance of the hyporheic zone to river restoration
Claudia Coll	C. Lindim, A. Sobek, M. MacLeod	SETAC 2016	Mai 16	Nantes, France	Talk	Junge relationships in modelled and measured concentrations
Malte Posselt	A. Ribbenstedt, J. Benskin	SETAC 2016	Mai 16	Nantes, France	Poster	Fingerprinting Micropollutant Transformation in Hyporheic Zones
Andrea Popp	M. Brennwald, R. Kipfer	Goldschmidt 2016	Jul 16	Yokohama, Japan	Poster	Continuous Noble Gas Analysis to Estimate Artificial Groundwater Recharge for Drinking Water Production
Nacho Peralta-Maraver	J. Reiss, A. Robertson	SIL 2016	Aug 16	Torino, Italy	Poster	An overview of the hypoTRAIN network topics: hydrology, secondary production and the bioreactor ability of the hyporheic zone
Chiara Magliozzi	G. Coro, R. Grabowski, S. Krause, M. Janes	British Hydrological Society 2016	Sep 16	Cranfield UK	Poster	Drivers of hyporheic exchange across spatial scales: from kilometres to meters
Chiara Magliozzi	R. Grabowski, M. Janes	International Conference of River Restoration and Maintenance	Sep 16	Krakow, Poland	Talk	Recognizing the hyporheic zone for effective restoration measures
Jonas Mechelke		8 <sup>th</sup> International Passive Sampling Workshop And Symposium	Sep 16	Prague, Czech Republic	Poster	Development of a passive sampler to trace polar organic pollutants at low flow velocities along hyporheic flow paths
Tanu Singh	L. Wu, A. Wörman, D. M. Hannah, S. Krause, J. D. Gomez-Velez	AGU Fall Meeting 2016	Dec 16	San Francisco, USA	Talk	Impacts of Freshets on Hyporheic Exchange Flow under Neutral Conditions
Liwen Wu	T. Singh, J. Lewandowski, G. Nuetzmann, A. Wörman, D. M. Hannah, S. Krause and J. D. Gomez-Velez,	AGU Fall Meeting 2016	Dec 16	San Francisco, USA	Poster	Impacts of Freshets on Hyporheic Exchange Flow under Gaining and Losing Conditions
Andrea Popp	M. Brennwald, R. Kipfer	AGU	Dec 16	San Francisco, USA	Poster	Residence times of transient riverbank exchanges traced by dissolved gases



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Jonas Schaper	A. Popp, K. Meinikmann, M. Shanafield, E. Banks, A. Putschew, J. Lewandowski, G. Nützmann	AGU	Dec 16	San Francisco, USA	Talk	Fate of polar organic trace compounds infiltrating into an alluvial aquifer from an urban lowland river
Andrea Betterle	M. Schirmer, G. Botter	AGU	Dec 16	San Francisco, USA	Poster	Spatial Correlation Of Streamflows: An Analytical Approach
M. Raza	C. Schüth, C. Kübeck	Athene	Mar 17	Koblenz, Germany	Poster	Sorption of micropollutants to soil and biofilm
C.R. Njeru	M. Posselt, M.A. Horn	DGHM & VAAM	Mar 17	Wurzburg, Germany	Poster	Microbial degradation of Ibuprofen in the hyporheic zone of a lowland stream
A. Jäger	M. Posselt, J. Schaper, J. Lewandowski	EGU	Apr 17	Vienna, Austria	Poster	Attenuation of organic micropollutants in an urban lowland stream under varying seasonal and hydrological conditions
M.B. Mojarrad	A. Wörman, J. Riml, H. Laudon	EGU	Apr 17	Vienna, Austria	Talk	Exchange pattern in the hyporheic zone of boreal rivers
A. Betterle	M. Schirmer, G. Botter	EGU	Apr 17	Vienna, Austria	Talk	Characterizing the Spatial Correlation of Streamflows
J. Mechelke	E. L. M. Vermeirssen, J. Hollender	IBP Congress	Apr 17	Zurich, CH	Poster	Passive sampling along hyporheic flow paths
C.R. Njeru	M. Posselt, M.A. Horn	EGU	Apr 17	Vienna, Austria	Poster	New microbes as causative agents of Ibuprofen degradation capabilities in the hyporheic zone of a lowland stream
C. Coll	Z. Li, R. Bier, S. Langenheder, A. Sobek	SETAC 2017	May 17	Brussels, Belgium	Poster	How important is sediment microbial diversity for degradation of pharmaceuticals?
J. Mechelke	E. L. M. Vermeirssen, J. Hollender	ICCE	Jun 17	Oslo, Norway	Talk	Tracing hyporheic zone-driven attenuation of polar organic pollutants using passive sampling
M. Posselt	R. Gergs, A. Jaeger, J. L. Schaper, C.R. Njeru, J. Galloway, B. Alscher, J.P. Benskin	ICCE	Jun 17	Oslo, Norway	Poster	Metformin Transformation in an Artificial River System.
A. Jäger	M. Posselt, J.L. Schaper, J. Riml, J. Lewandowski	HydroEco 2017	Jun 17	Birmingham, UK	Poster	Using intrinsic diurnal concentration fluctuations in an urban lowland stream to investigate transport and fate of organic micropollutants based on the one-dimensional transport model OTIS
M. Raza	C. Schüth, C. Kübeck, M. P. Herrling	HydroEco 2017	Jun 17	Birmingham, UK	Poster	Sorption of Organic Micropollutants onto Soil of Erpe River, Berlin
Ch. Magliozzi	R.C. Grabowski, M. Janes	HydroEco 2017	Jun 17	Birmingham, UK	Poster	Examining the relationships between large wood and hyporheic invertebrates across lowland reaches.
T. Singh	L. Wu, D.M. Hannah, S. Krause, J. Lewandowski, J.D. Gomez-Velez	HydroEco 2017	Jun 17	Birmingham, UK	Talk	Effects of transient hydrologic forcing on Hyporheic Exchange Flow



First author	Co-authors	Conference	Date	Venue	Poster /Talk	Title
I. Peralta-Maraver	Julia Reiss, A.L. Robertson	EcoHydro 2017	Jun 17	Edinburgh, UK	Poster	Hierarchical interplay of hydrology, community ecology and ecosystem services in the hyporheic zone.
I. Peralta-Maraver	J. Galloway, M. Posselt, S. Arnon, J. Reiss, J. Lewandowski, Sheelajini A.L. Robertson	EcoHydro 2017	Jun 17	Edinburgh, UK	Talk	Assessing the role of vertical flux on sediments ecology and community distribution in rivers: a holistic approach
Ch. Magliozzi	R.C. Grabowski, M. Janes	South Downs Research Centre	Jul 17	Midhurst, UK	Poster	Examining the relationships between large wood and hyporheic invertebrates across lowland reaches
C.R. Njeru	M.A. Horn	FEMS	Jul 17	Valencia, Spain	Poster	Hyporheic zone: A harbor for novel bacterial micropollutant degraders
I. Peralta-Maraver	J. Galloway, M. Posselt, S. Arnon, J. Reiss, J. Lewandowski, A.L. Robertson	SEFS10	Jul 17	Olomouc, Czech Republic	Talk	Piecing together the puzzle: assessing hyporheic ecology in rivers.
Ch. Magliozzi	G. Coro, R.C. Grabowski, A.I. Packman, S. Krause	Symposium of the International Society for River Science	Nov 17	Hamilton, NZ	Talk	A new multi-scale approach to detect potential hyporheic exchange flow in rivers
Ch. Magliozzi	R.C. Grabowski, A.L. Robertson	Symposium of the International Society for River Science	Nov 17	Hamilton, NZ	Talk	Relationships between large wood in rivers, benthic macroinvertebrates, and hyporheic invertebrates
A. Betterle	M. Schirmer, G. Botter	AGU	Dec 17	New Orleans, USA	Poster	What Do They Have in Common? Physical Drivers of Streamflow Spatial Correlation and Prediction of Flow Regimes at Ungauged Locations
A. Jäger	M. Posselt, J. Schaper, J. Lewandowski	AGU	Dec 17	New Orleans, USA	Poster	Fate of wastewater-derived pharmaceuticals and formation of transformation products in an urban lowland river
T. Singh	L. Wu, J.D.Gomez-Velez, S. Krause, D.M. Hannah, J. Lewandowski, G. Nuetzmann	AGU	Dec 17	New Orleans, USA	Talk	Response of hyporheic zones to transient forcing
M. Raza	C. Schüth, C. Kübeck, T. Brückner	CYSChem 2018	Feb 18	Belgium	Poster	Pharmaceuticals sorption to soil and biofilm
J. Mechelke	A. Jaeger, C. Coll, C. Njeru, M. Posselt, M. Raza, A. Mehrstens, A. Betterle, M. Mojarrad, D. Scheidweiler, T. Singh, M.A. Horn, J. Benskin, A. Sobek, J. Hollender	2 <sup>nd</sup> European Hyporheic Forum	Apr 18	London, UK	Talk	Enantiomeric Fractionation – an indicator of biotransformation during a water-sediment flume study
A. Popp	R. Kipfer	2 <sup>nd</sup> European Hyporheic Forum	Apr 18	London	Talk	Physical and biogeochemical response of groundwater to flood events
M. Posselt	R. Gergs, A. Jaeger, J. Schaper, C. R. Njeru, J. Galloway, J. P. Benskin	2 <sup>nd</sup> European Hyporheic Forum	Apr 18	London, UK	Talk	Transformation of the antidiabetic drug metformin in mesocosm and river systems



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A. Jäger	C. Coll, J. Mechelke, C. Njeru, M. Posselt, M. Raza, A. Betterle, A. Mehrrens, M. Mojarrad, D. Scheidweiler, T. Singh, P. Blaen, M.A. Horn, J. Lewandowski, A. Sobek, J. Benskin	2 <sup>nd</sup> European Hyporheic Forum	Apr 18	London, UK	Talk	HypoTRAIN Joint Field Experiments June 2017 at University of Birmingham, What rules a river's self-cleaning dynamics, hydrology or microbiology? Insights from a mesocosm experiment, Hyporheic Forum
I. Peralta-Maraver	C. Njeru, J. Reiss, M.A. Horn, A.L. Robertson	2 <sup>nd</sup> European Hyporheic Forum	Apr 18	London, UK	Talk	Mechanistic understanding of an ecosystem service: Efficiency of emergent pollutant biodegradation in the hyporheic zone.
A. Betterle	M. Schirmer, G. Botter	2 <sup>nd</sup> European Hyporheic Forum	Apr 18	London, UK	Talk	Hydrologic drivers of streamflow correlation and spatial patterns of flow regimes
T. Singh	L. Wu, J. D. Gomez Velez, J. Lewandowski, D. Hannah, S. Krause	2 <sup>nd</sup> European Hyporheic Forum	Apr 18	London, UK	Talk	Differential heat propagation in ripples, dunes and riffle-pool bedforms and its impact on hyporheic exchange flows
M.B. Mojarrad	A. Wörman, J. Riml	2 <sup>nd</sup> European Hyporheic Forum	Apr 18	London, UK	Talk	Multiscale Groundwater-Surface water Interaction
Liwen Wu	T. Singh, D. Gomez Velez, G. Nützmänn, A. Wörman, S. Krause, J. Lewandowski, J. Riml, R. Earon	2 <sup>nd</sup> European Hyporheic Forum	Apr 18	London, UK	Talk	Exploring the Role of Transient Flood Pulses on Bedform-induced Hyporheic Exchange under Gaining and Losing Groundwater Conditions
C. Coll	Z. Li, R. Bier, S. Langenheder, A. Sobek	2 <sup>nd</sup> European Hyporheic Forum	Apr 18	London, UK	Talk	Differences in (bio)degradation of pharmaceuticals and bacterial diversity in OECD 308
Ch. Magliozzi	P. Usseglio-Polatera, A. Meyer, R. Grabowski	2 <sup>nd</sup> European Hyporheic Forum	Apr 18	London, UK	Talk	The effects of instream large wood on invertebrate functional traits: a UK case study
S. Paramjothy	F. Sabater, A. Sorolla	2 <sup>nd</sup> European Hyporheic Forum	Apr 18	London, UK	Talk	Investigating Conditions of Rhizosphere in Macrophytic and Non-macrophytic Habitats in a Lotic System in Response to WWTP Effluent Unloading
M. Raza	C. Schüth, C. Kübeck, M. P. Herrling	2 <sup>nd</sup> European Hyporheic Forum	Apr 18	London, UK	Talk	Sorption of Micropollutants to Soil and Biofilm
C.R. Njeru	M.A. Horn	2 <sup>nd</sup> European Hyporheic Forum	Apr 18	London, UK	Talk	Microbial Removal of Organic Micropollutants in the Hyporheic zone
A. Betterle	M. Schirmer, G. Botter	EGU 2018	Apr 18	Vienna, Austria	Talk + Poster	What do they have in common? Hydrologic drivers of streamflow correlation and spatial patterns of flow regimes
A. Jäger	M. Posselt, J.L. Schaper, A. Betterle, J. Lewandowski	EGU 2018	Apr 18	Vienna, Austria	Pico Presentation	Self-purification capacity of an urban lowland stream - an attempt to identify drivers for in-stream transformation processes of organic micropollutants
A. Popp	R. Kipfer	EGU 2018	Apr 18	Vienna	Poster	Streambank exchange— physical and biogeochemical response of groundwater to flood events
T. Singh	L. Wu, D. M. Hannah, S. Krause, J. D. Gomez-Velez	EGU 2018	Apr 18	Vienna, Austria	Poster	Differential Heat Propagation in Ripples, Dunes and Riffle-Pool Bedforms and its Impact on Hyporheic Exchange Flows



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T. Singh	L. Wu, D. M. Hannah, S. Krause, J. D. Gomez-Velez	EGU 2018	Apr 18	Vienna, Austria	Poster	Exploring the dynamics of hyporheic zones
S. Paramjothy	A. Sorolla, F. Sabater, E. Marti	River Restoration Conference	May 18	Nottingham, UK	Poster	Investigating Conditions of Rhizosphere in Macrophytic and Non-macrophytic Habitats in a Lotic System in Response to WWTP Effluent Unloading
C. Coll	Z. Li, R. Bier, S. Langenheder, A. Sobek	SETAC 2018	May 18	Rome, Italy	Poster	OECD 308 tests to explore differences in persistence of pharmaceuticals and microbial diversity between two rivers
J. Mechelke	P. Longrée, J. Hollender, H. Singer	EmCon	Jun 18	Oslo, Norway	Poster	Can vacuum-assisted evaporative pre-concentration of water samples replace traditional SPE prior to environmental organic trace analysis?
J. Mechelke	H. Zeng, E. L.M. Vermeirssen, J. Hollender	EmCon	Jun 18	Oslo, Norway	Talk	Tracing biotransformation products in-situ – passive sampling within the hyporheic zone
M. Raza	C. Schüth, C. Kübeck, T. Brückner	EBC-VII ISEB 2018	Jun 18	Chania, Greece	Poster	Sorption of organic pollutants to soil and biofilms
C.R. Njeru	M.A. Horn	EBC-VII & ISEB 2018	Jun 18	Chania, Greece	Talk	Microbial removal of pharmaceutical residues in the hyporheic zone
C.R. Njeru	Adrian Ho, M.A. Horn	ISME	Aug 18	Leipzig, Germany	Poster	Effect of oxygen on microbial removal of metoprolol in the hyporheic zone
A. Betterle	M. Schirmer, G. Botter	IDRA	Oct 18	Ancona, Italy	Talk	Cosa controlla la correlazione spaziale dei deflussi? Uso di un nuovo modello stocastico per individuare bacini idrologicamente simili
A. Betterle	M. Schirmer, G. Botter	AGU	Dec 18	Washington DC, USA	Poster	Predicting the spatial correlation of daily streamflows to understand the hydrological response of river networks
S. Paramjothy	A. Sorolla, F. Sabater, E. Marti	Hydroeco	May 19	Lyon, France	Poster	Biochemical cycling and pharmaceutical attenuation in an urban lowland river
S. Paramjothy	A. Sorolla, F. Sabater, E. Marti	Rhizosphere 5	Jul 19	Saskatoon, Saskatchewan, Canada	Talk	Effects of Pharmaceuticals on Nutrient Cycling of Macrophytes