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Capillary electrophoresis-mass spectrometry based metabolomics approaches for volume-restricted applications

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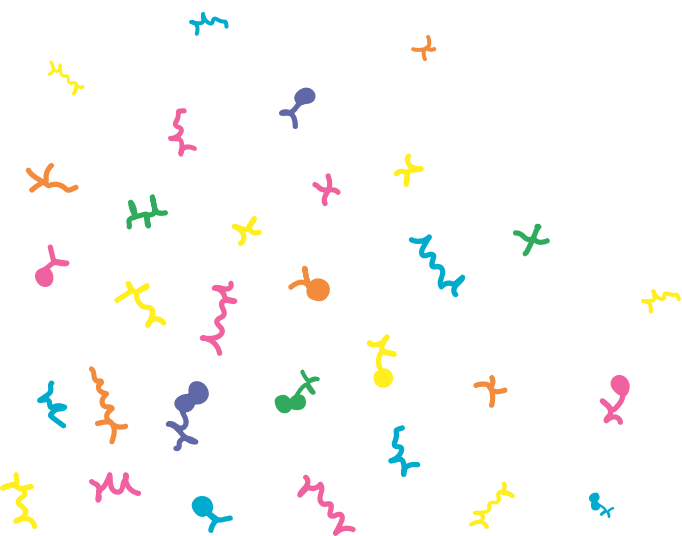
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Addendum

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Dankwoord

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List of abbreviations

μPPPS	Micro Push-pull perfusion sampling
AKG	α-Ketoglutaric acid
BBB	Blood-brain barrier
BBD	Box-Behnken Design
CCD	Central Composite Design
CE	Capillary electrophoresis
CI	Chemical ionization
CITS	Citric acids
CMS	Capillary microsampling
CNS	Central nervous system
cOFM	Cerebral open flow microperfusion
CSF	Cerebrospinal fluid
DA	Dopamine
DBS	Dried blood spots
DI-MS	Direct infusion-MS
DLLME	Dispersive liquid-liquid microextraction
DmPABr	Dimethylaminophenacyl bromide
ECF	Extracellular fluid
EI	Electron ionization
EKS	Electrokinetic supercharging
EME	Electromembrane extraction
EPI	Epinephrine
FA	fatty acid
FASI	Field-amplified sample injection
FASS	Field-amplified sample stacking
Fbi	Find by ion
FUM	Fumaric acid
GA	Glutaric acid
GABA	Gamma-aminobutyric acid
GC	Gas chromatography
GR	Glucocorticoid receptor
HDI	Hydrodynamic injection
ICD	Isotope-coded derivatization
IM	ion mobility
IPR	ion-pair reagent
kNN	k-nearest neighbours
LAC	Lactic acid
LC	Liquid chromatography
LLE	Liquid-liquid extraction
LOF	Lack-of-fit
LPME	Liquid-phase microextraction
MAL	Malic acid
MCE	Microchip CE

ME	Matrix effect
MEF	Matrix effect factor
MEPS	Microextraction in a packed syringe
MFE	Molecular features extraction
MIPs	Molecularly-imprinted polymers
MNA	Malonic acid
MOI	Microfluidic open interface
MR	Mineralocorticoid receptor
MRKO	MR-knockout
MVDA	Multivariate data analysis
MS	Mass spectrometry
MSI	multi-segment injection
MT	Migration time
NE	Norepinephrine
NIST	National Institute of Standards and Technology
NMR	Nuclear magnetic resonance
OXA	Oxaloacetic acid
PIESI	Paired ion electrospray ionization
PPPS	Push-pull perfusion sampling
PT-SPE	Pipette-tip solid-phase extraction
PYR	Pyruvic acid
QC	Quality control
RMT	Relative migration time
RSD	Relative standard deviation
RSM	Response surface methodology
SIL	Stable-isotope labelled
SL	Sheath-liquid
SPE	Solid-phase extraction
SPME	Solid phase microextraction
SUC	Succinic acid
TCA	Tricarboxylic acid
TEOA	Triethanolamine
TFME	Thin-film microextraction
tITP	Transient-isotachopheresis
TmAmPBr	trimethylmethaneaminophenacetyl bromide
TOF	Time of flight
TUS	Total useful signal
VAMS	Volumetric absorptive microsampling