Application of HPTLC multi-wavelength imaging and color scale fingerprinting approach combined with multivariate chemometric methods for medicinal plant clustering according to their species

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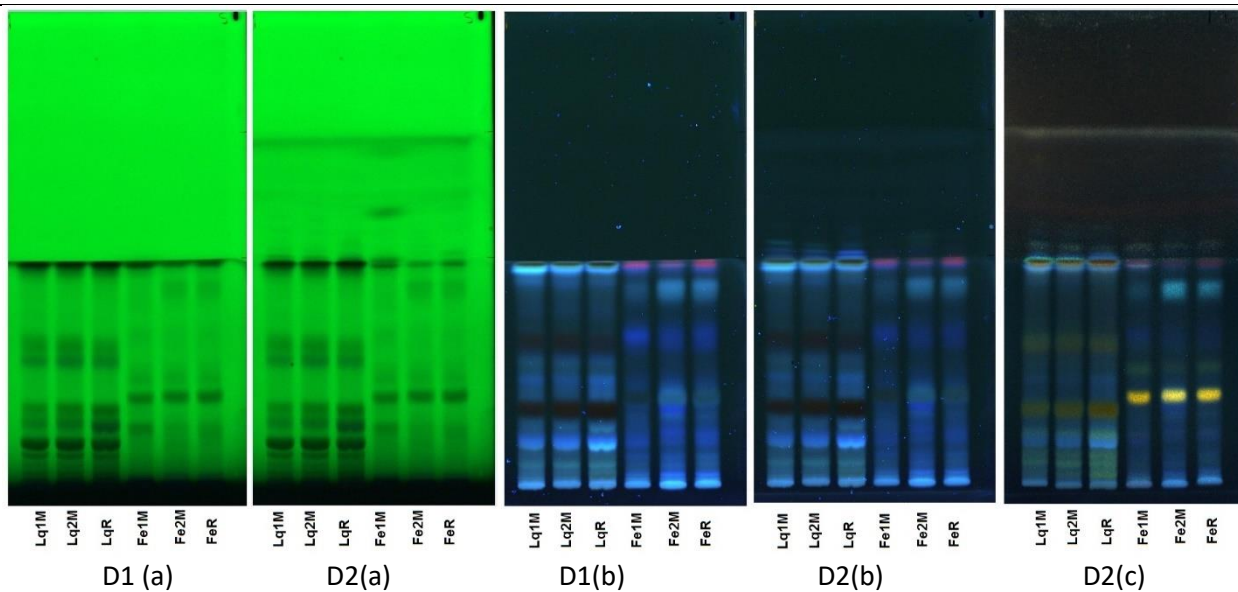
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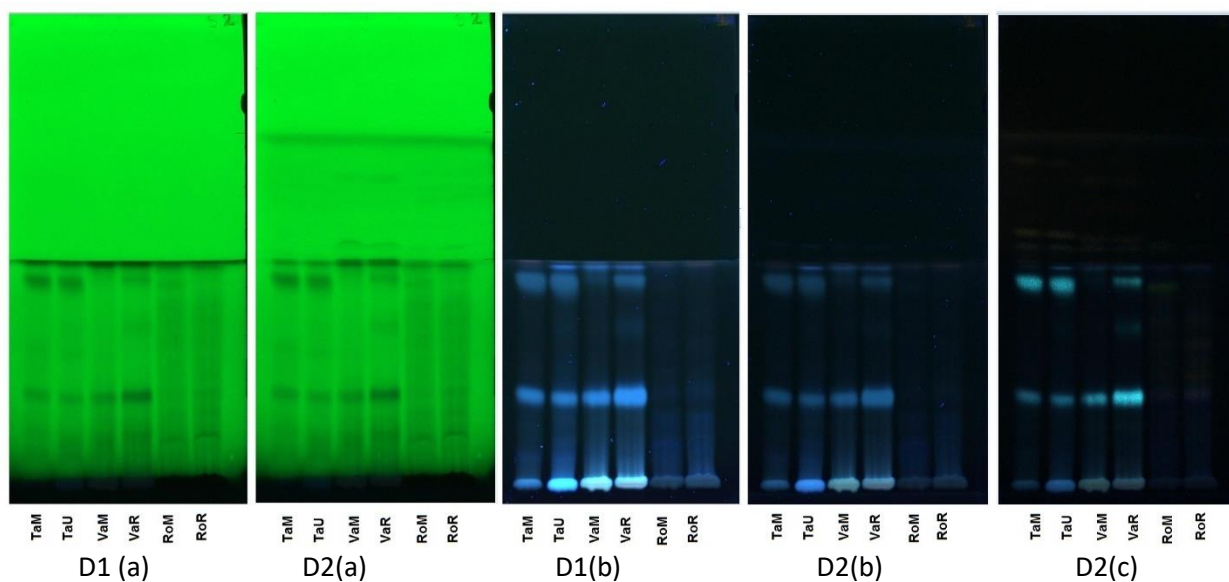[4] SC PlantExtrakt SRL, 407059 Rădaia, Cluj, Romania

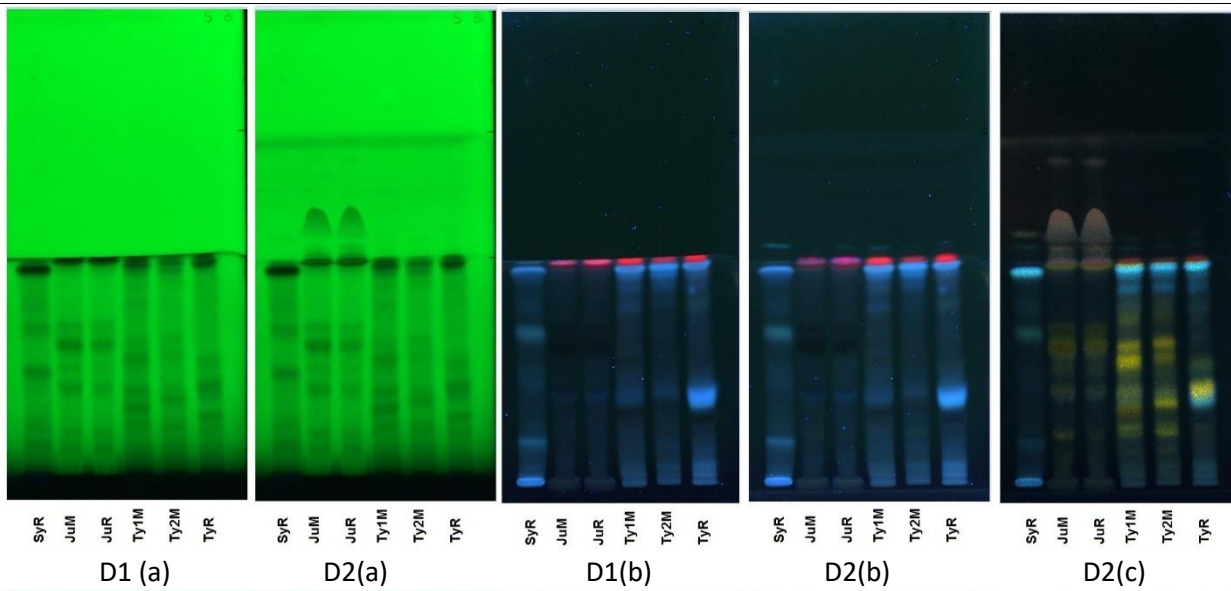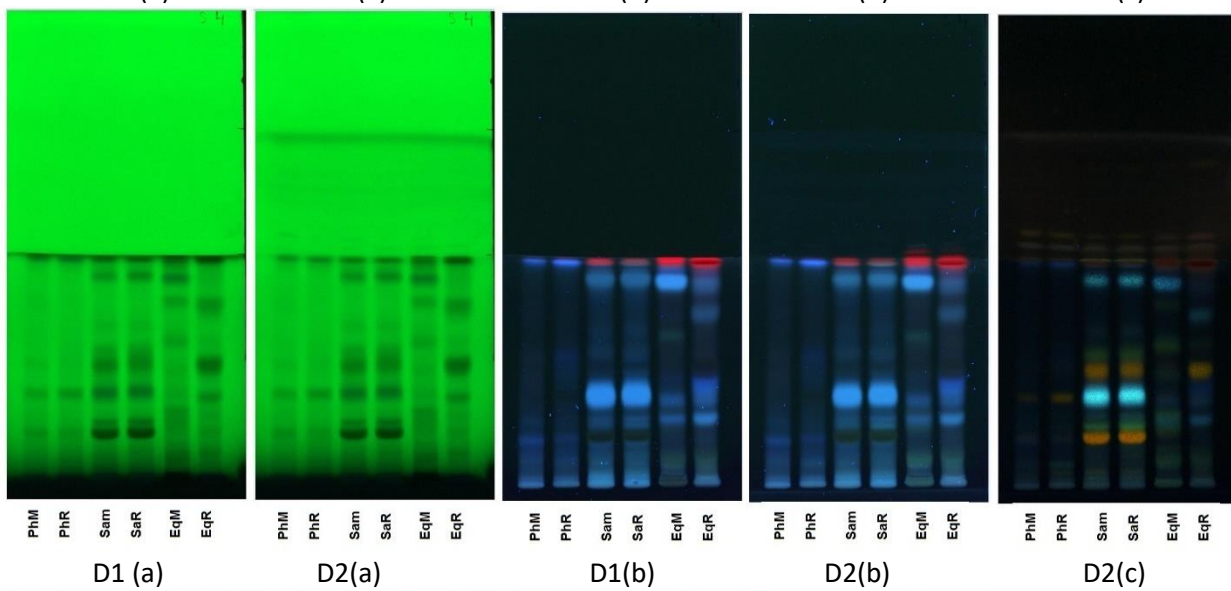***** Correspondence: dorina.casoni@ubbcluj.ro; Tel.: +40-264-590818
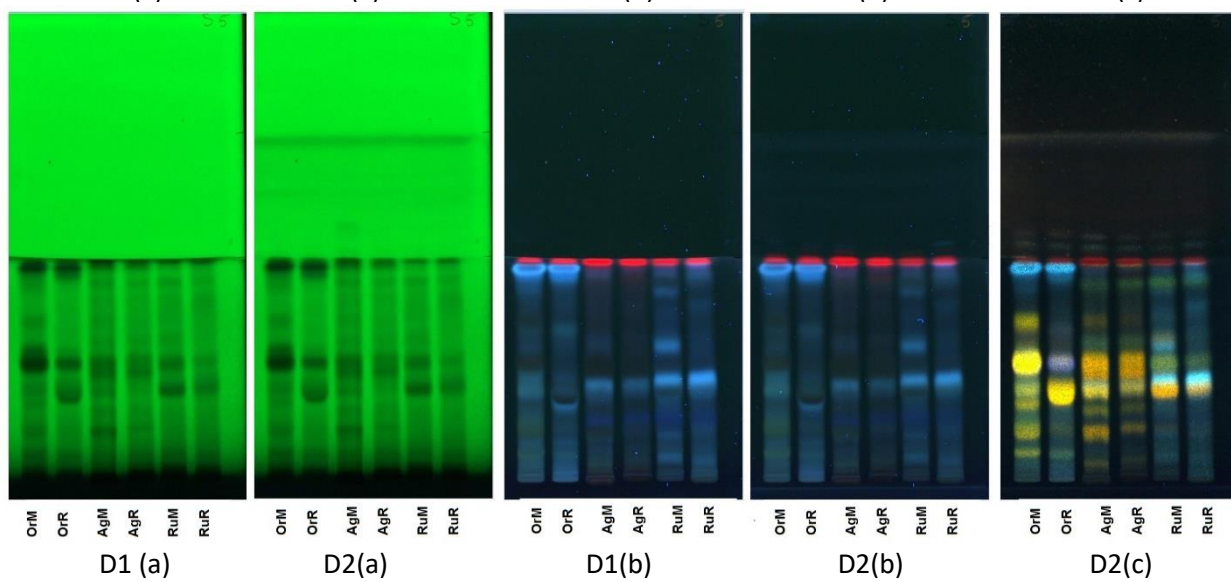
Plate number					
1					
	D1 (a)	D2(a)	D1(b)	D2(b)	D2(c)
2					
	D1 (a)	D2(a)	D1(b)	D2(b)	D2(c)

3

SyR JuM JuR Ty1M Ty2M TyR	SyR JuM JuR Ty1M Ty2M TyR	SyR JuM JuR Ty1M Ty2M TyR	SyR JuM JuR Ty1M Ty2M TyR	SyR JuM JuR Ty1M Ty2M TyR
D1 (a)	D2(a)	D1(b)	D2(b)	D2(c)

4

PhM PhR Sam SaR EqM EqR	PhM PhR Sam SaR EqM EqR	PhM PhR Sam SaR EqM EqR	PhM PhR Sam SaR EqM EqR	PhM PhR Sam SaR EqM EqR
D1 (a)	D2(a)	D1(b)	D2(b)	D2(c)

5

OrM OrR AgM AgR RuM RuR	OrM OrR AgM AgR RuM RuR	OrM OrR AgM AgR RuM RuR	OrM OrR AgM AgR RuM RuR	OrM OrR AgM AgR RuM RuR
D1 (a)	D2(a)	D1(b)	D2(b)	D2(c)

MeM | Me1R | Me2R | Ty1M | Ty2M | TyR
D1 (a)

MeM | Me1R | Me2R | Ty1M | Ty2M | TyR
D2(a)

MeM | Me1R | Me2R | Ty1M | Ty2M | TyR
D1(b)

MeM | Me1R | Me2R | Ty1M | Ty2M | TyR
D2(b)

MeM | Me1R | Me2R | Ty1M | Ty2M | TyR
D2(c)

UrSM | UrFM | UrHR
D1 (a)

UrSM | UrFM | UrHR
D2(a)

UrSM | UrFM | UrHR
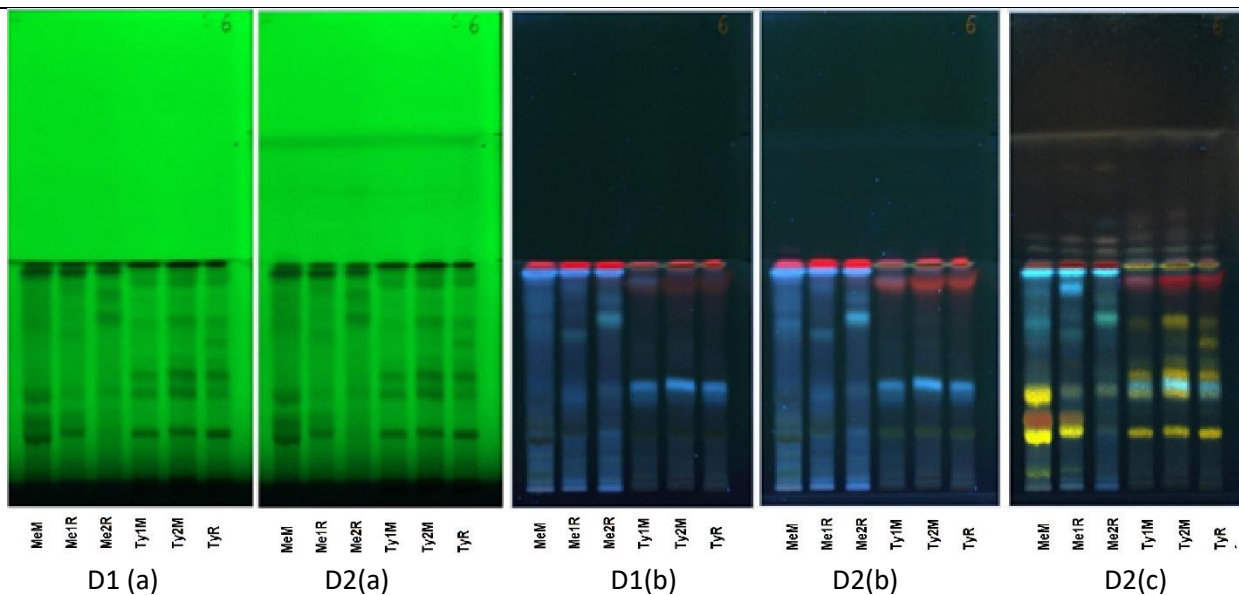D1(b)

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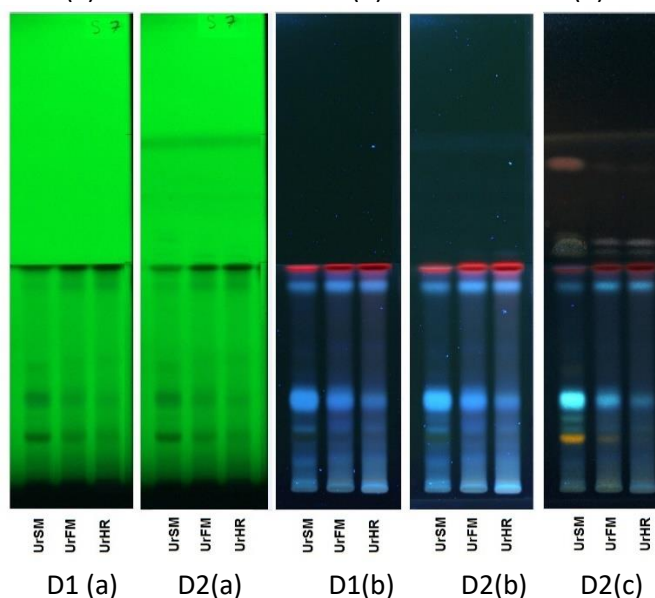D2(b)

UrSM | UrFM | UrHR
D2(c)

Figure S1. The images of the chromatographic plates (HPTLC Silica gel 60 F_{254} plates numbered from 1 to 7) including all the analyzed medicinal plants extracts (corresponding name of the plants - in Table 1) obtained after first development (D1) using ethyl acetate - formic acid - water (80:10:10 v/v/v) as mobile phase and second development (D2) using toluene - ethyl acetate (95: 5, v/v) as mobile phase respectively; visualization (from left to right side) by fluorescence quenching under 254 nm (a), florescence at 365 nm (b)and at 365 nm after derivatization (c).