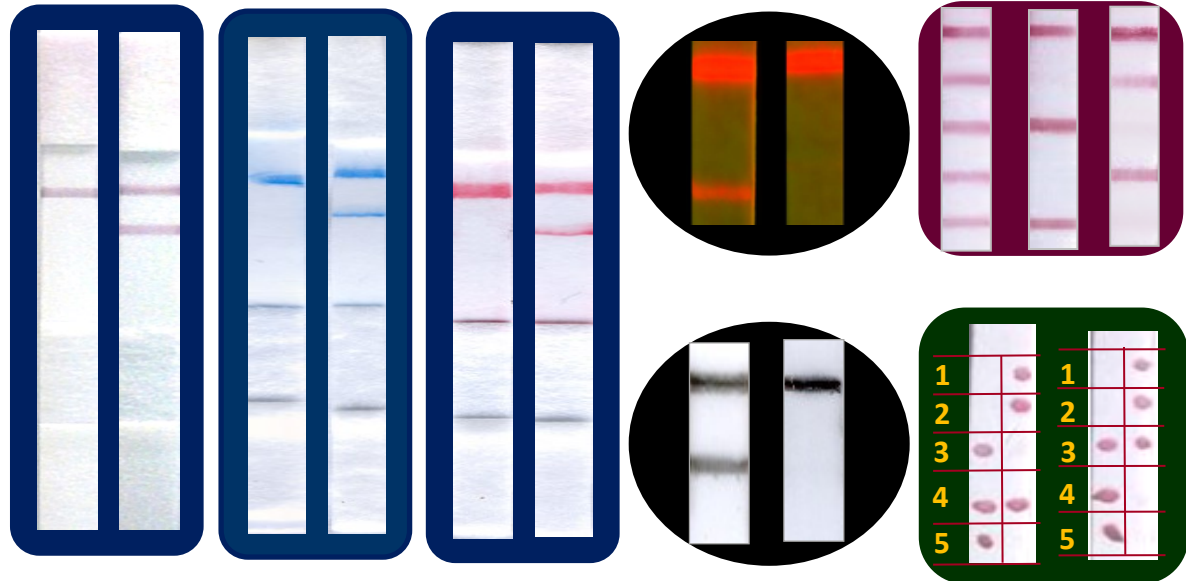
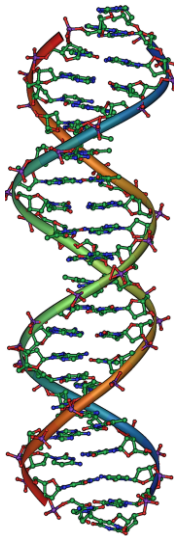


# Μοριακά 'rapid test' για τον έλεγχο της αυθεντικότητας των προϊόντων αγροδιατροφής

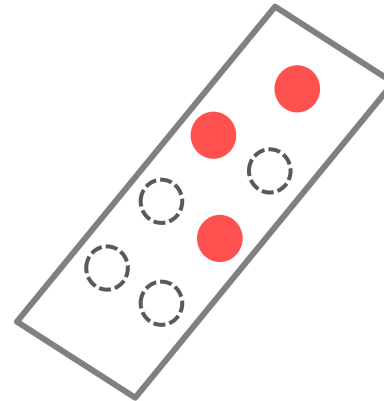
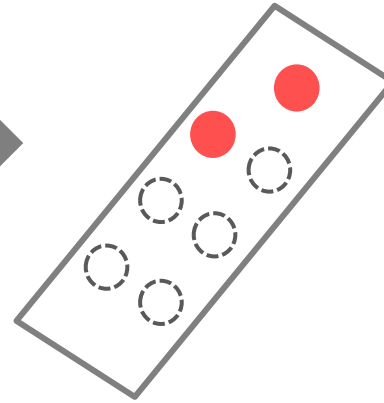
Θεόδωρος Χριστόπουλος

Καθηγητής Αναλυτικής Χημείας, Τμήμα Χημείας, Πανεπιστήμιο Πατρών  
και σμΔΕΠ, ΙΕΧΜΗ/ΙΤΕ

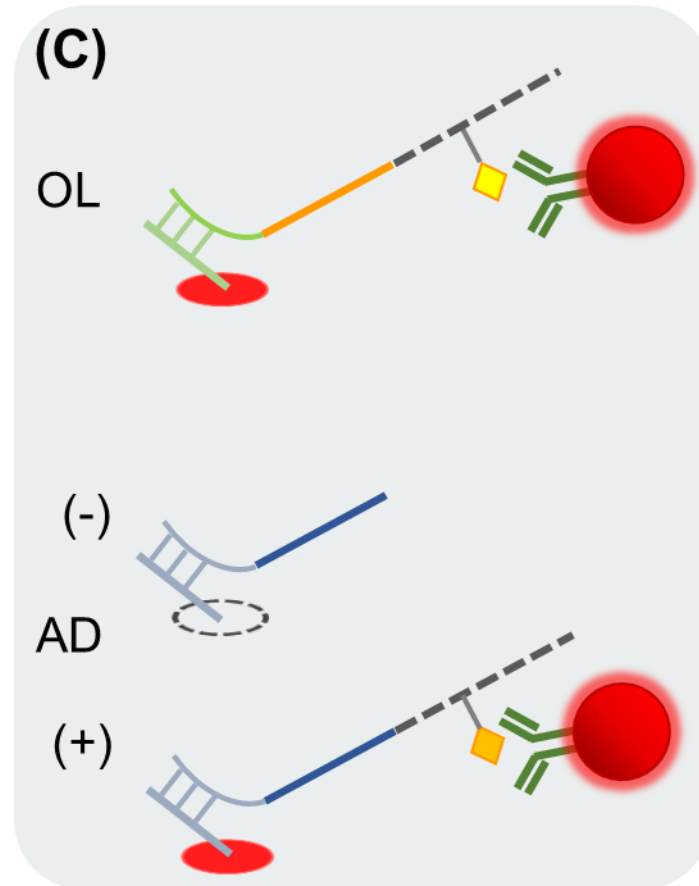
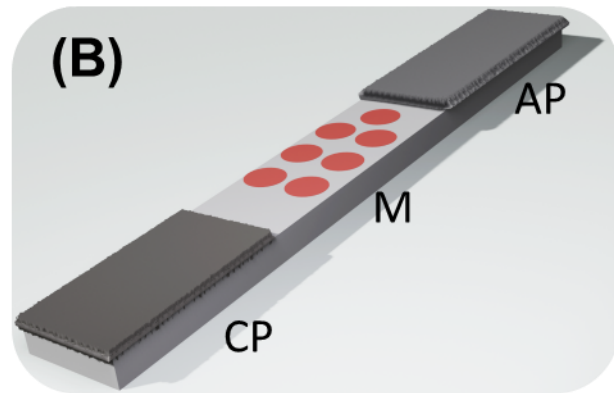
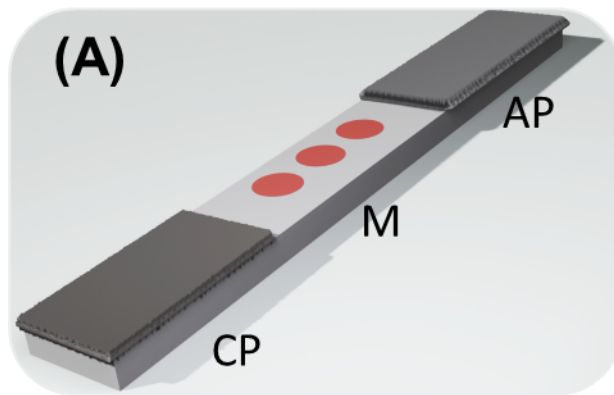
*E-mail:* [tchrist@upatras.gr](mailto:tchrist@upatras.gr)



# DNA sensors for olive oil authenticity testing



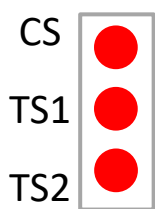
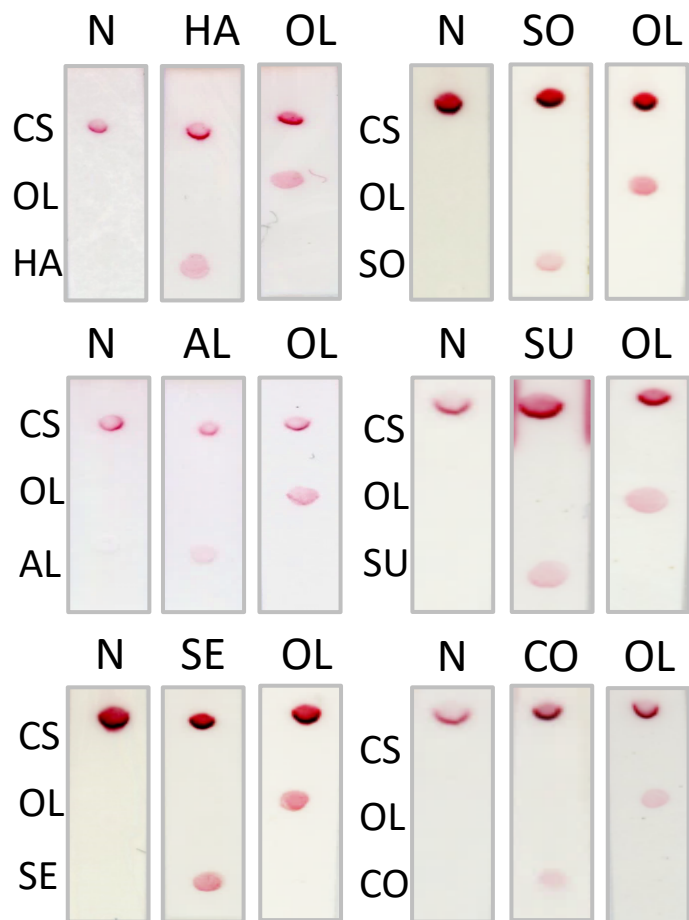
# Screening method for visual discrimination of olive oil from other vegetable oils by a multi-species DNA sensor



### (A) Dual-species sensor

#### Cross-reaction studies

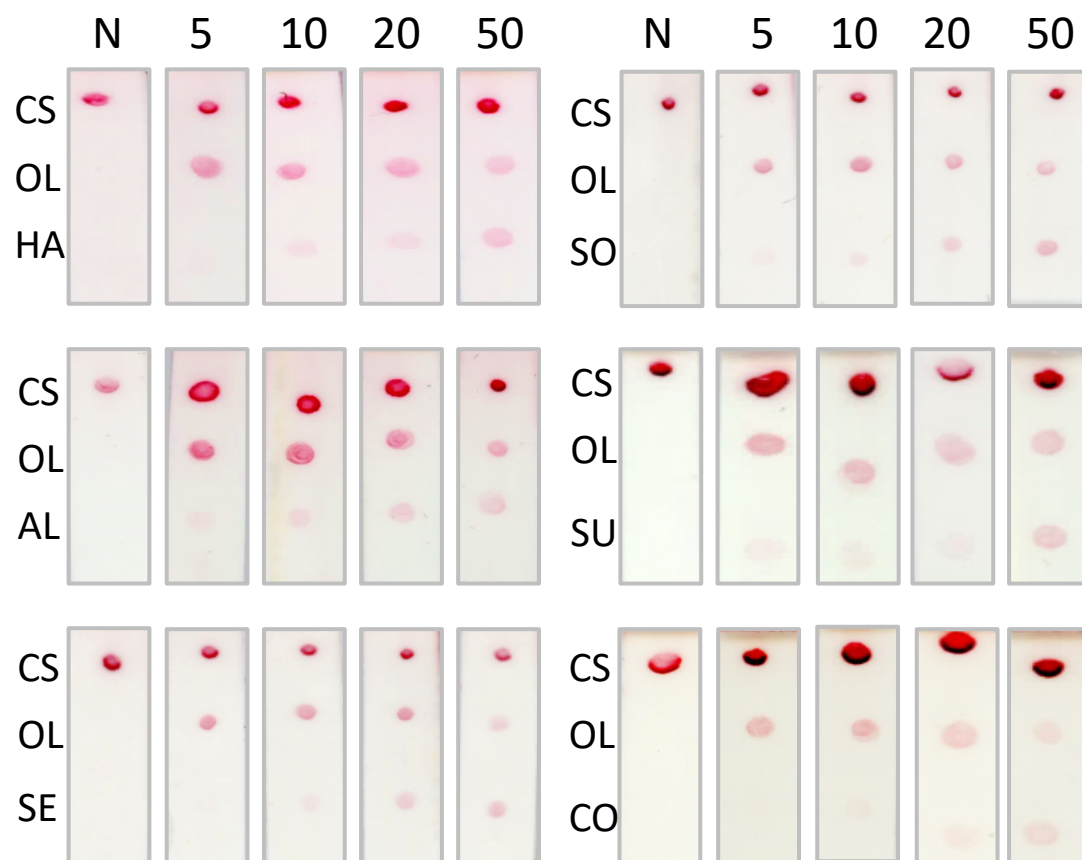
#### *Binary mixtures (olive/adulterant)*

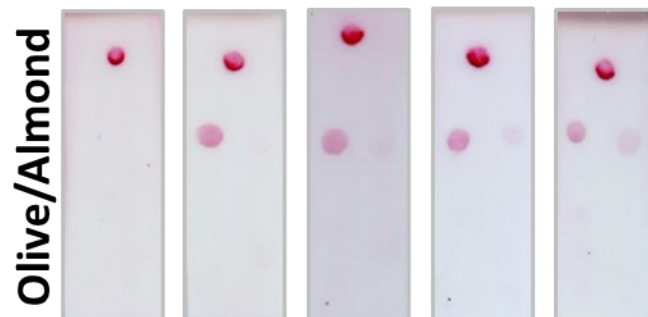
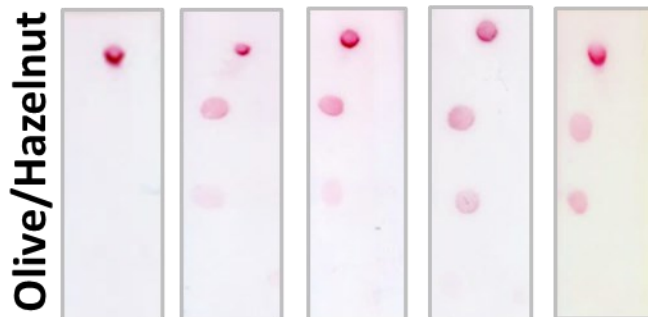
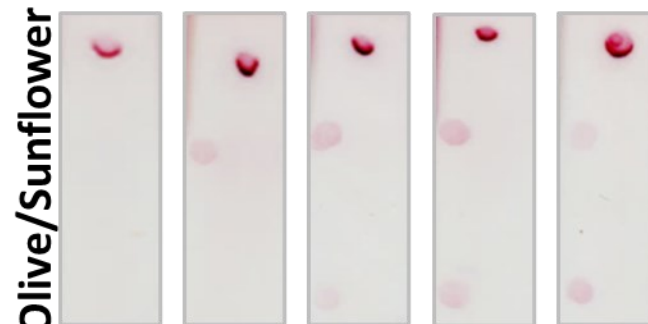
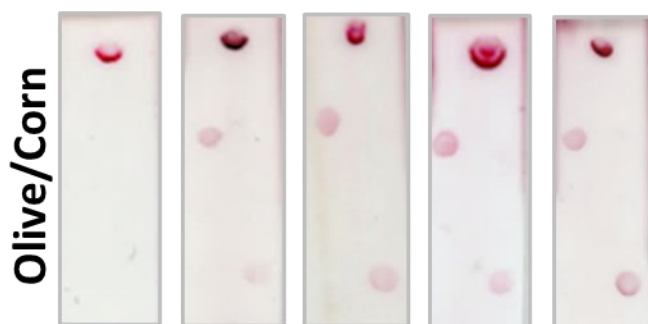
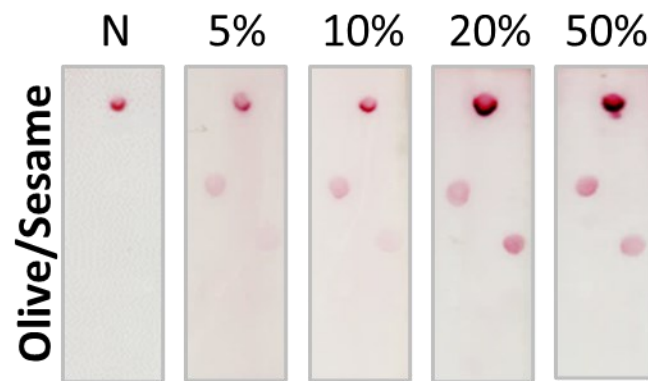
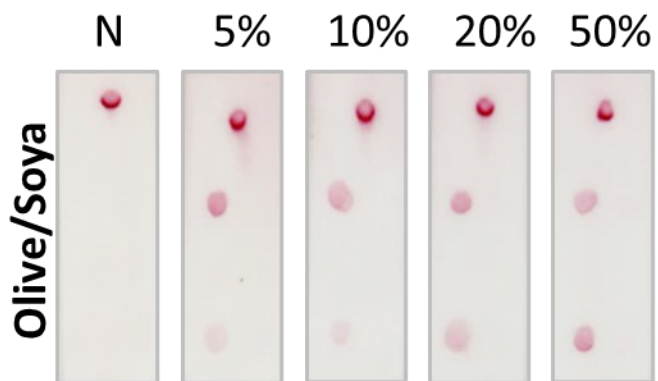
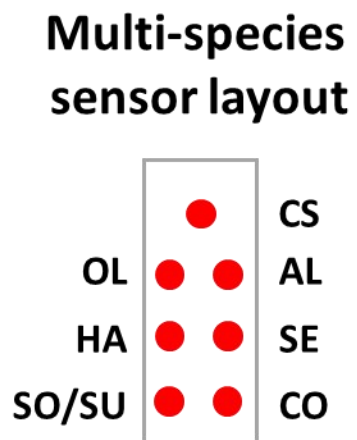


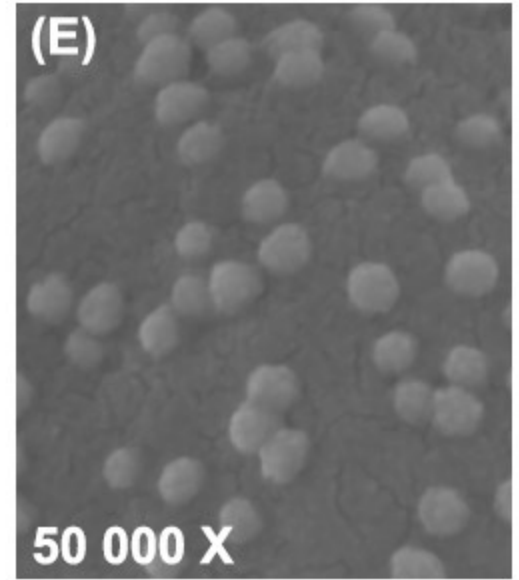
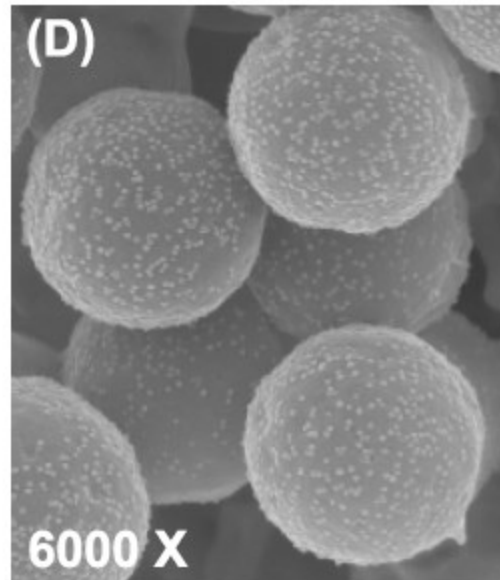
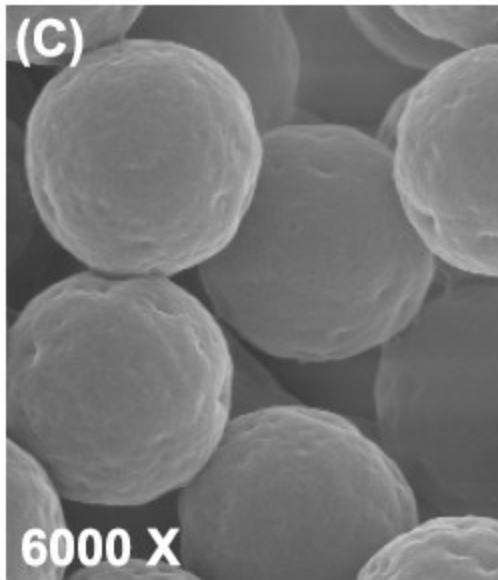
### (B) Dual-species sensor

#### *Binary mixtures (olive/adulterant)*

#### *% PCR product of adulterant in olive*



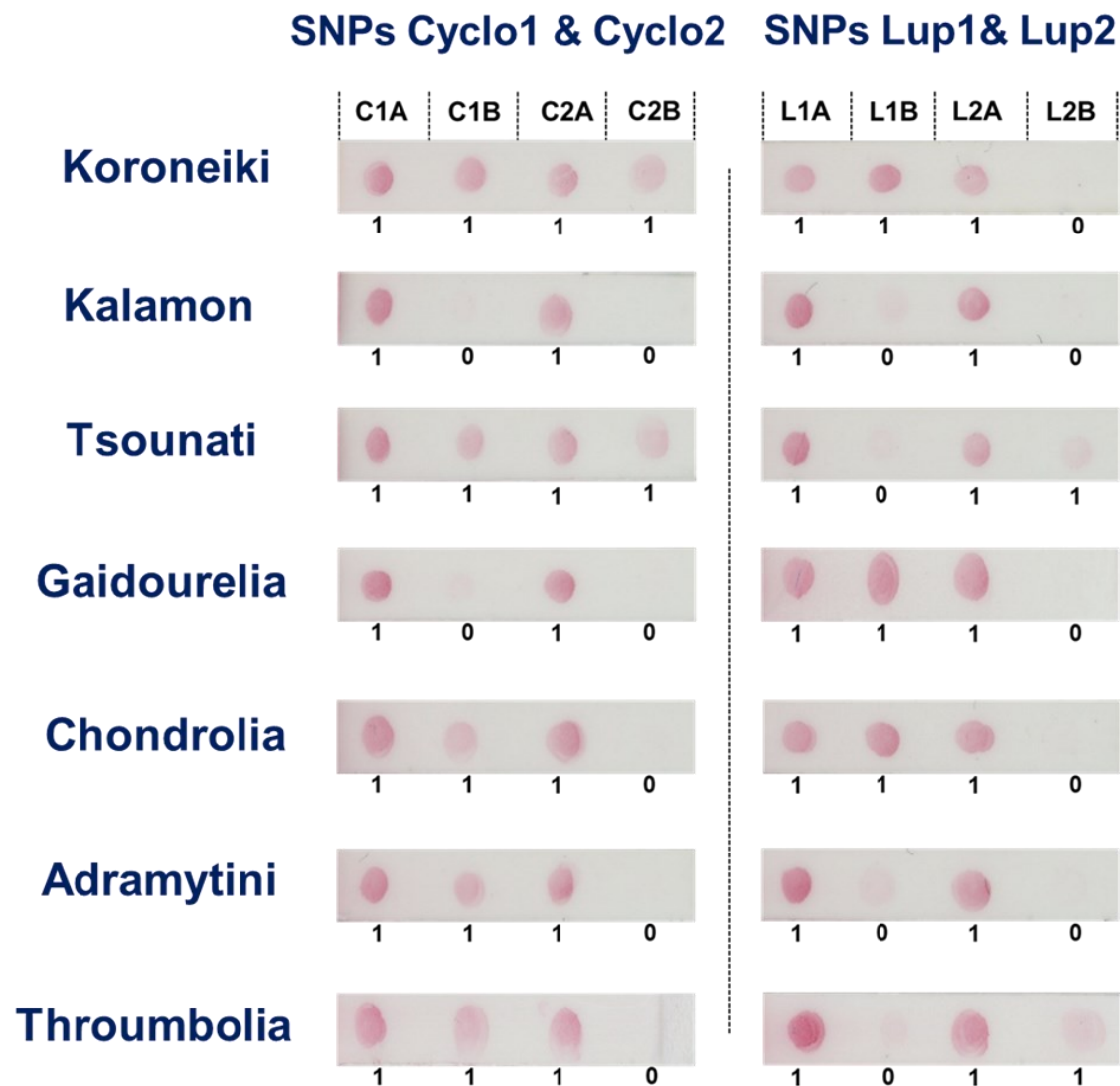




# DNA sensors for molecular traceability of olive oil cultivar origin

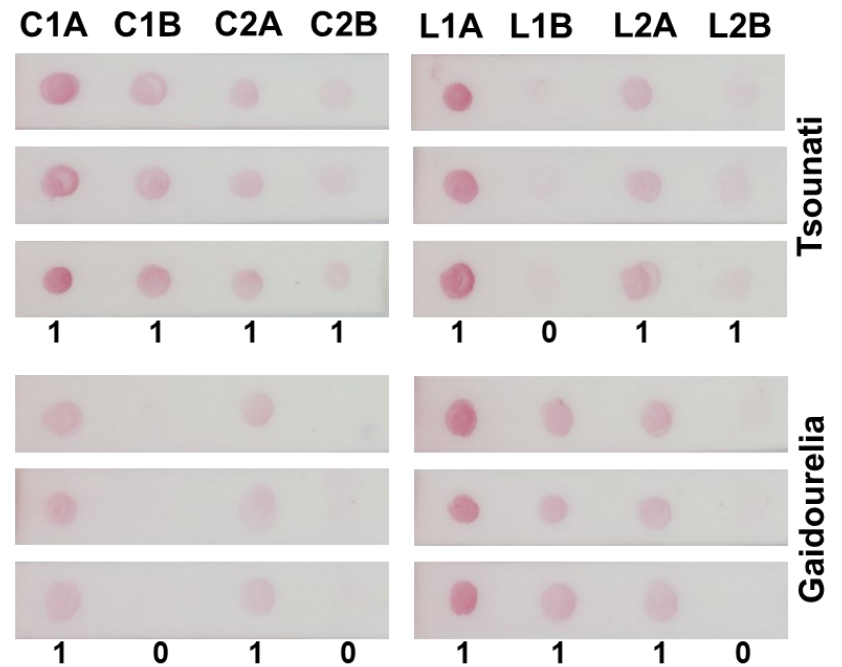
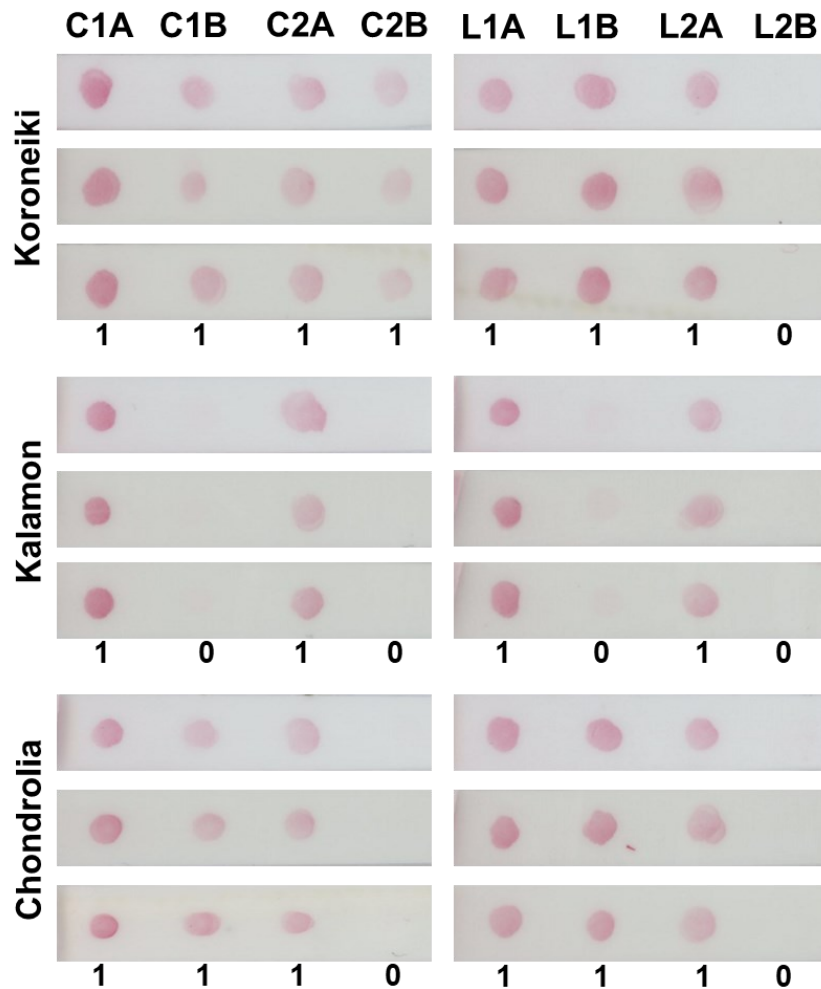


# Molecular traceability of olive varietal origin by naked eye

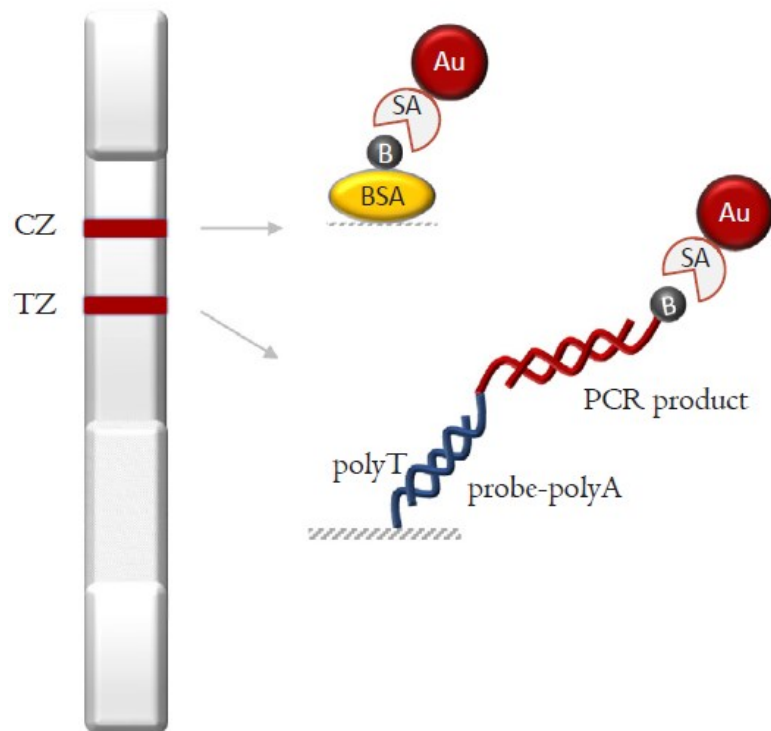




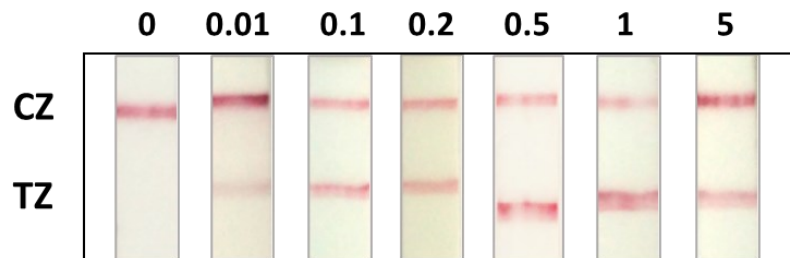
# Molecular traceability of varietal origin of olive oil samples



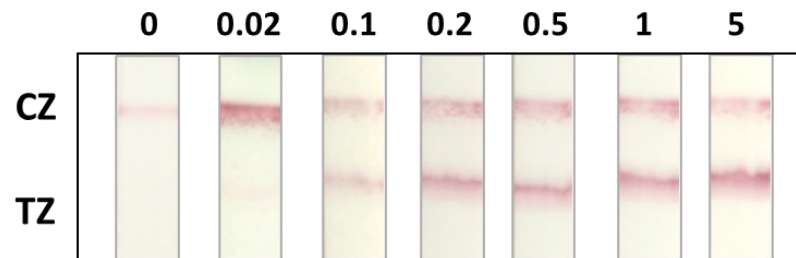
# DNA-based meat authentication with visual detection



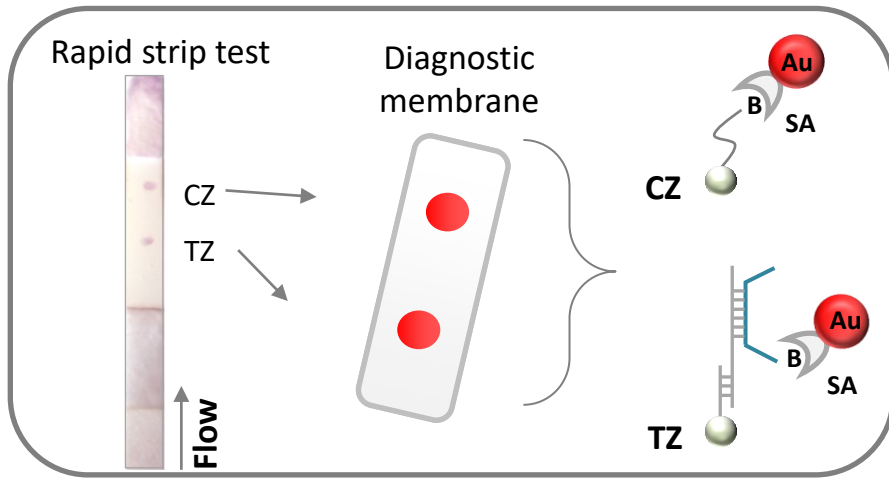
*% Content of horse DNA in beef DNA*



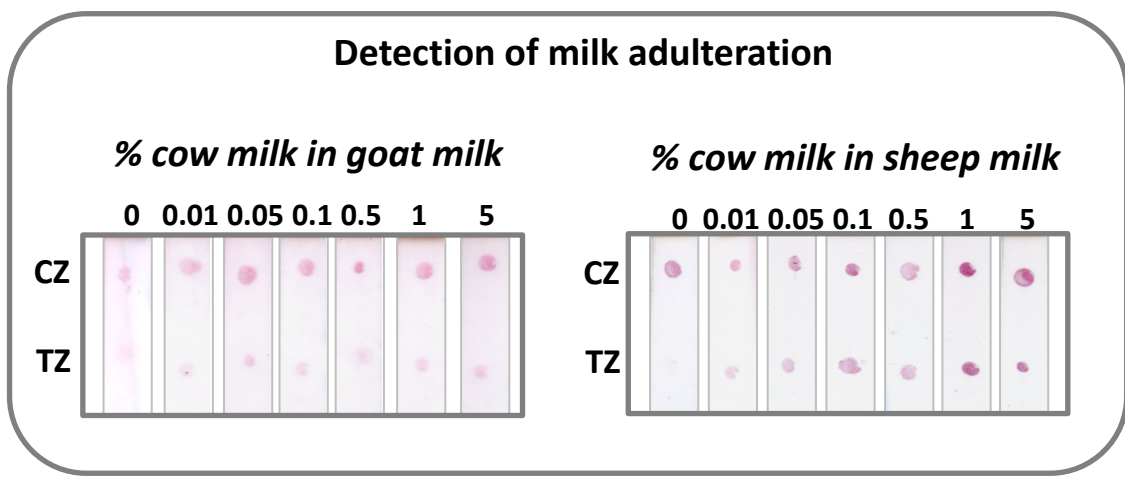
*% Content of pork DNA in sheep DNA*



# Milk authenticity testing



*Adulteration of sheep and goat milk with cow milk*



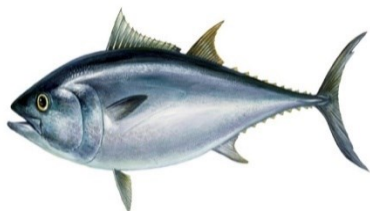
# Molecular rapid tests for fish authentication



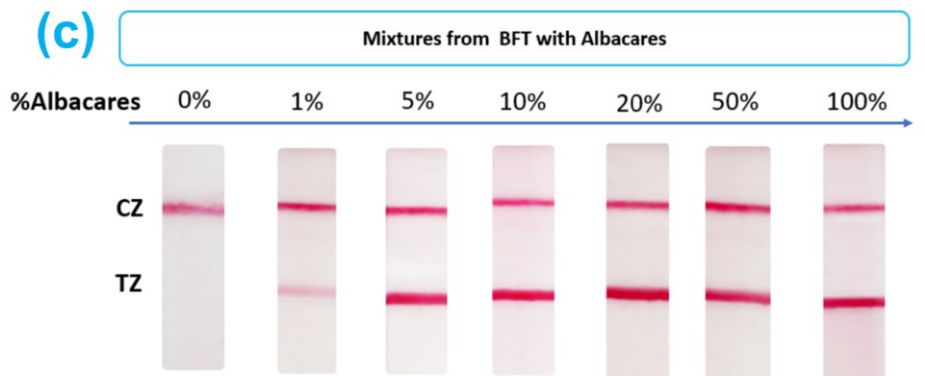
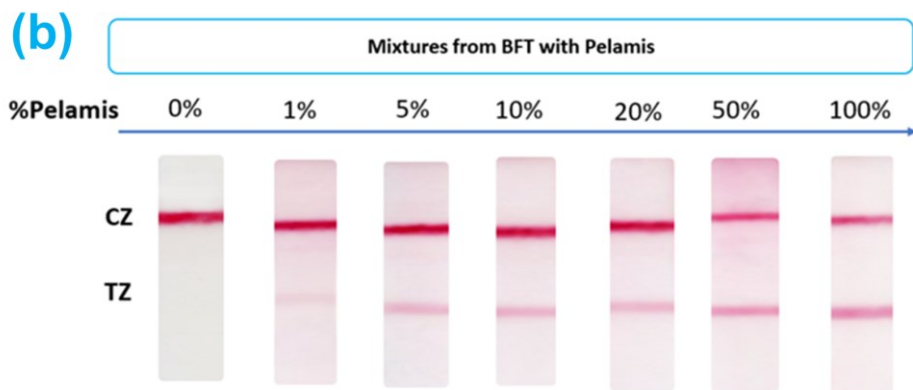
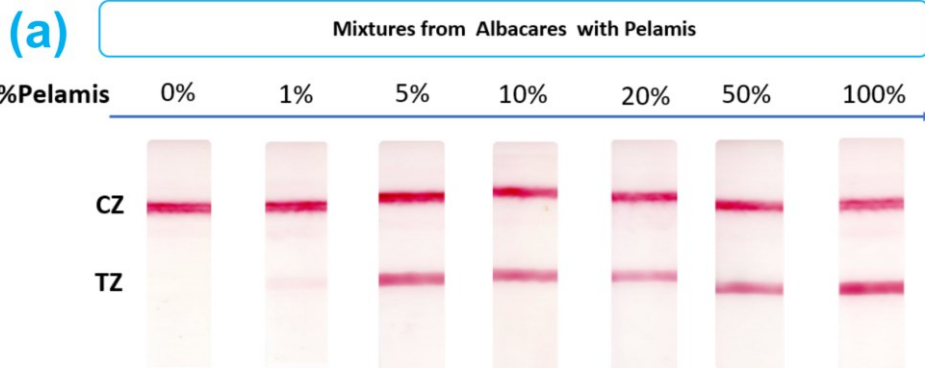
*Katsuwonus pelamis*



*Thunnus albacares*  
(Yellowfin tuna)

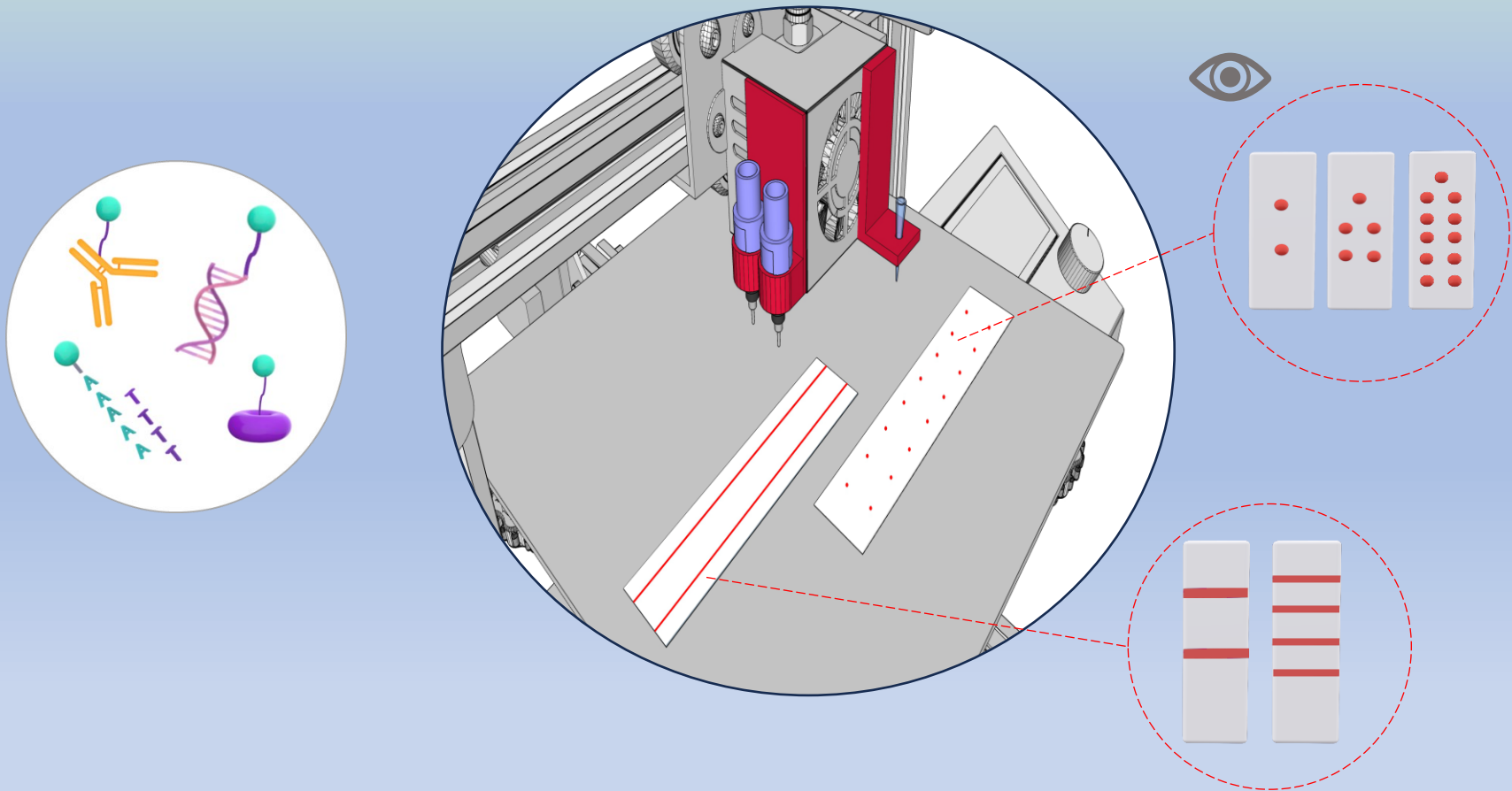


*Thunnus thynnus*



# 3D printer-based system enabling rapid, low-cost and versatile construction of the biosensing areas of lateral flow devices for immunoassays and nucleic acid assays

P.M. Kalligosfyri\*, S.S. Tragoulias, P. Tsikas, E. Lamprou, T.K. Christopoulos, D.P. Kalogianni\*





**Έργο του  
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Παν/μιο Πατρών



Ναταλία  
Χριστοπούλου



Ισιδώρα  
Γκίνη



Μυρτώ  
Κακαρελίδου



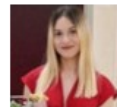
Βασιλική  
Μυριδάκη



Μαρία  
Μαγιάτη



Βασιλική  
Μαμουλάκη



Αγλαΐα  
Μητσιάκου



Ιωάννης  
Τραντάκης



Παναγιώτης  
Χριστόπουλος



Ελένη  
Σαμολαδά



Ελένη  
Μπουγάδη



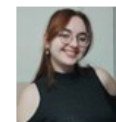
Δανάη  
Αρβανίτη



Μαριλένα  
Βδοκάκη



Ανθή  
Καραγεωργούδη



Νικολέτα  
Μπέλλου



Παναγιώτης  
Καλαϊτζής,  
Μ.Α.Ι.Χ



Αλέξιος  
Κονίδης,  
ΕΛ.ΚΕ.Θ.Ε



Ευρωπαϊκή Ένωση  
Ευρωπαϊκό Κοινωνικό Ταμείο



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ  
ΥΠΟΥΡΓΕΙΟ  
ΑΝΑΠΤΥΞΗΣ ΚΑΙ ΕΠΕΝΔΥΣΕΩΝ  
ΕΙΔΙΚΗ ΓΡΑΜΜΑΤΕΙΑ ΔΙΑΧΕΙΡΙΣΗΣ  
ΠΡΟΓΡΑΜΜΑΤΩΝ ΕΠΙ & ΤΣ  
ΕΥΔ ΠΡΟΓΡΑΜΜΑΤΟΣ «ΑΝΤΑΓΩΝΙΣΤΙΚΟΤΗΤΑ»

ΕΠΑνεΚ 2014-2020  
ΕΠΙΧΕΙΡΗΣΙΑΚΟ ΠΡΟΓΡΑΜΜΑ  
ΑΝΤΑΓΩΝΙΣΤΙΚΟΤΗΤΑ  
ΕΠΙΧΕΙΡΗΜΑΤΙΚΟΤΗΤΑ  
ΚΑΙΝΟΤΟΜΙΑ

