

## ***Phloms* L.(Labiatae)**

		<i>phlomis</i> L.	
		Tricolpate	
		Subspherical–Spherical	
	<i>P.oliveri</i> Bth.	Shortly ellipsoid – Ellipsoid	
<i>P.</i>			
		<i>P. Rigida</i> Labill	<i>oliveri</i>

### **PALYNOLOGICAL STUDY OF *phlomis* L. (LABIATAE) SPP. GROWN IN IRAQ AND ITS TAXONOMIC USES.**

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#### **Abstract**

Pollen of *Phlomis* spp. grown wildly in Iraq has been investigated for the first time, as a part of comparative study for the species of this genus.

Description of these pollen were important in diagnosis of this spp., the study showed that pollen were isopolar and a single pollen is tricolpate, with reticulate surface, and spherical -subspherical, in polar view, and almost ellipsoid to shortly ellipsoid in equatorial view, but it was spherical in *P. oliveri* Bth.;

The longest axis of the pollen is      um, thus all the species included in present study were of medium size. Pollen of *P.oliveri* was the smallest in size, while pollen of *P.rigida* Labill was the biggest.

There is a table for result, also figures and diagrams for illustration

[ ]

palynology

[ ]

[ ]

Labiatae

*Phlomis*

[ ]

tricolpate  
 Hexacolpate  
 [ ] Tetracolpate  
 very homogenous

Olympus  
 .( )

[ ]  
 Phlomis

*Phlomis* [ ]

*phlomis*

Anthers

%

( - )

.( ) (BUH)

[ ] -

Olympus

(P)

(E)

( - )

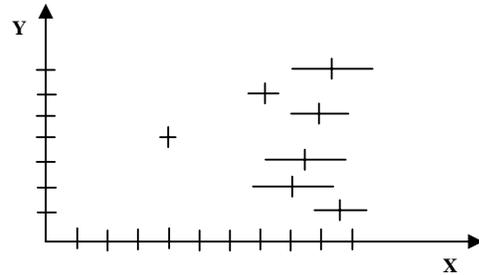
( - )

ocular micrometer

P/E

.( )

/			
/		<i>Phlomis rigida</i> Labill	
/			
/		<i>P. kurdica</i> Rech.F.	
/		<i>P. bruguieri</i> Desf.	
/		<i>P. oliveri</i> Bth.	
/		<i>P. herba-venti</i> L.	
/		<i>P. lanceolata</i> Boiss. Et.Hoh.	
/		<i>P. polixantha</i> L.	



*Phlomis*

(P)

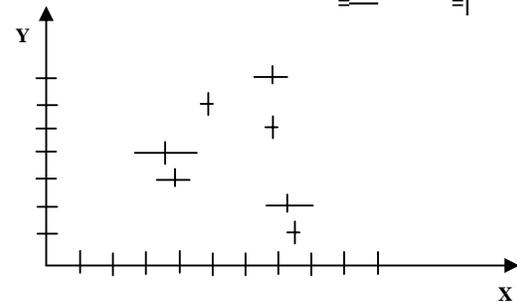
( )

:X

:Y

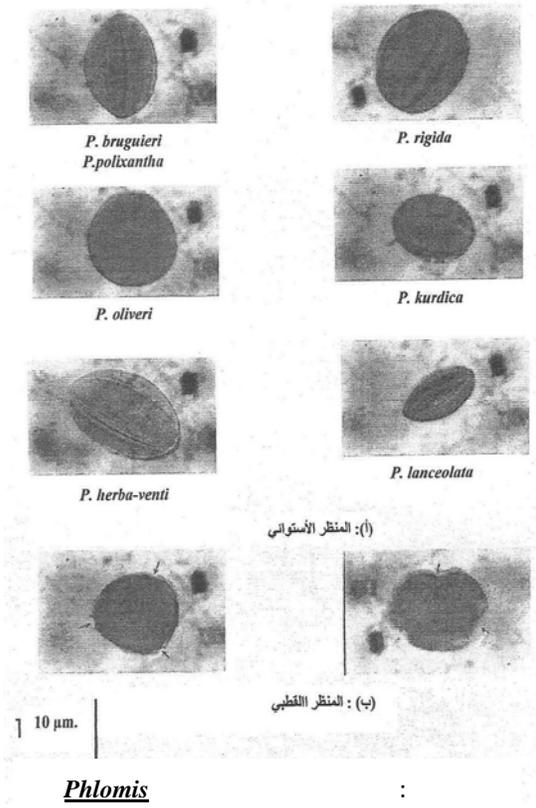
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( ) :Y  
= =|

**Phlomis**  
(E) :X



P/E ( )

*P. oliveri*  
*P. rigida*

[ ]

*P. oliveri* ( . x . )  
*P. rigida* ( x . )

[( ) ]:

**P. Phlomis**

			P/E	(P)	(E)	
% .	-	-	.	( - . ) *	( - . ) *	<i>Phlomis rigida</i>
% .	-	-	.	( . - . ) *	( - . ) *	<i>P. kurdica</i>
% .	-	-	.	( . - . ) *	( . - . ) *	<i>P. bruguieri</i>
% .	-	-	.	( - ) *	( . - ) *	<i>P. oliveri</i>
% .	-	-	.	( . - . ) *	( . - . ) *	<i>P. herba-venti</i>

%	-		( - . )	( - . )	<i>P.lanceolata</i>
%	-	-	( - . )	( . - . )	<i>P.polixantha</i>

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- *P. rigid*

- *P.polixantha P. bruguieri*

*P.kurdica* -

*P.lanceolat P. oliveri*

*.P. herba – venti* -

( ) -

( . %) *P.bruguieri*

*.P. lanceolata* ( %) *P.bruguieri x P. kurdica*  
(BUH)

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