London Hospital

Publication/Creation

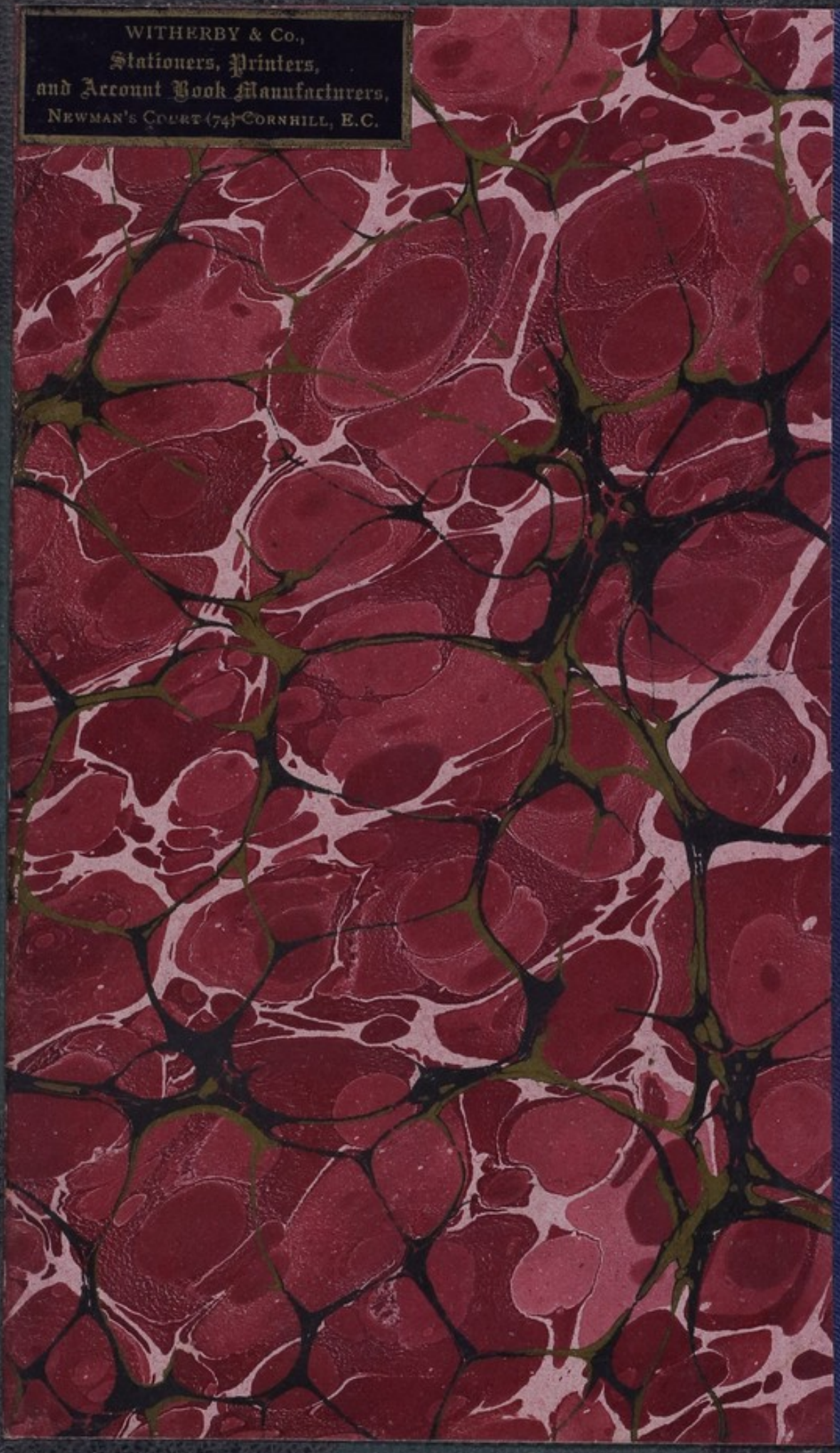
1903-1913

Persistent URL

https://wellcomecollection.org/works/kcp5wu4e

License and attribution

Wellcome Collection
183 Euston Road
London NW1 2BE UK
T +44 (0)20 7611 8722
E library@wellcomecollection.org
https://wellcomecollection.org



2/0

Exp 1

The whole flowers of the wild Hyacinth were taken. about 50 grams, pounded up with silver sand, distilled H_2O added + a little thymol. then allowed to stand for 24 hrs, filtered, 3 vols of abs. alc added to filtrate, allowed to stand 24 hrs. filtered, ppt collected, washed with abs alcohol dried at room temp, extracted with 20 cc. dist H_2O. and a trace of thymol added. Flowers of a red Geranium placed in fluid appeared to turn slightly blue, when placed in cold conservatory to light, similar flowers placed in dist H_2O with thymol & also in a further watery extract from ppt remained unchanged, yellow & blue flowers placed in each remained unchanged, all were left in for 14 days. ~~thus~~ except all gradually faded & rotted, flowers totally [illegible]

	First extract of alc ppt	2nd ext. of alc. ppt	dist H_2O + thymol
Red Geranium	slight bluish	nil	nil
Yel Buttercups	nil	nil	nil
Blue Cornflower	nil faded	faded	faded

Result very indefinite

Exp 2

The whole flowers of were taken "about 10 grammes, pounded with silver sand. dist H_2O added and a little Thymol, then allowed to stand 24 hrs, filtered, 3 vols of Methylated spirit added to filtrate, allowed to stand 14 days filtered, ppt collected, washed with Methy spirit, dried at room temp, extracted with 10 CC. dist water with thymol for 24 hrs & filtered. Thymol added to filtrate.

	Thy, dist H_2O ext of alc ppt	Thy dist H_2O
Crimson Penzance Briar	3 days no fading bluish where touched. liquid	3 days faded slight bluish where touched water, then brown, then rot.

the above were placed in room to light ~~& age~~ air but out of direct sun light

Result not definite.

Exp 3

Petals of blue delphinium flowers were taken ~ about 30 grammes, pounded with silver sand, 300 grms dist H_2O and a little Thymol added allowed to stand 24 hrs, filtered, 3 vols of Methyl spirit added, allowed to stand 24 hrs. Flask broke and all material lost.

Result not tested

Exp 4

Petals of flowers of blue delphinium were taken "22 grammes". pounded with silver sand. 320 grammes of dist and a little thymol added allowed to stand 24 hrs. filtered washed with another 100 cc of H_2O, to this washings mixed with filtrate 3 vols of methyl spirit were added. allowed to stand for 24 hrs, filtered, ppt washed with a little more spirit, then dried in air. ppt extracted with 44 cc of H_2O + little Thymol added. for ~~24 hrs~~ 3 days, filtered and little thymol added. 29/6/03.

		Thy. H_2O ext of alc ppt
Crimson Penzance Briar	nil 24hrs.	Nil 7 days
Blue Cornflower.	nil 24hrs.	slight Crimson pink 4 days
W.A.R. Rose.	nil 24hrs.	Nil 7 days
White Shirley Poppy.	nil 24hrs.	Nil 7 days

the above were placed in room to light fair out of direct sun light 30/6/03 stalks only in liquid flowers did not touch

Result Negative "exc see under control"

Exp 5

Calyse of blue delphinium flowers. 1·3 grams were taken pounded with silver sand 13 ~~grams~~ cc of dist H_2O and a little thymol added, allowed to stand 24 hours, filtered washed with 6·5 cc dist H_2O, to washings & filtrate 3 vols of methyl spirit were added and allowed to stand for 24 hrs., filtered, ppt washed with a little more spirit, ppt dried in air. extracted for ~~24 hrs~~ 3 days with ~~a~~ 3 grm of dist H_2O + little thymol, filtered & little thymol added to filtrate 29/6/03

	Thy. H_2O ext	Dis. alc ppt.
Crimson Pergamon Bsirak	nil 24 hrs.	nil 7 days
Blue Cornflower	nil 24 hrs.	slight crimson pink in 4 days
W.A.R. Rose	nil 24 hrs.	nil 7 days
White Shirley Poppy.	nil 24 hrs.	nil 7 days

the above were placed in room to light & air out of direct sun rays 29/6/03. stalks only in liquid, flowers did not touch.

Result negative. "see see under control"

Exp 6.

Flowering stalks (minus flowers & leaves) of blue delphinium were taken "30 grams" pounded with silver sand, 300 grammes of dist H_2O added and allowed to stand 24 hrs, filtered, washed with 150 cc of dist H_2O: to washings & filtrate 3 Vols of methylated spirit were added and allowed to stand 24 hrs, filtered, ppt washed with a little more spirit, ppt dried in air, extracted for ~~24 hrs~~ 3 days with 60 grammes dist H_2O + little thymol, filtered & little Thymol added to filtrate 29/6/03.

	Ppt. H_2O ext of alc ppt	
Crimson Perp Briar	Nil 24 hrs	Nil 7 days
Blue Cornflower	Nil 24 hrs.	slight Crimson pink 4 days
W A R. Rose	Nil 24 hrs.	Nil 7 days
White thick Petals	Nil 24 hrs.	Nil 7 days.

The above were placed in room to light dark but out of direct sun rays. 29/6/03, stalks only & liquid flowers did not touch.

Result Negative "exp. see under control"

Exp 4, 5 & 6 Controls

Experiments 4, 5 & 6 were done under exactly similar conditions, & to ascertain the influence of Thymol, Lime & dist water the following controls were done with them. 29/6/03

	dist H_2O + thy	dist H_2O	Tap H_2O + thy	Tap H_2O
Crimson Perpetual Bright	Nil	Nil	Nil	Nil
Blue Cornflower	slightly Pink	Nil	some pink	Nil
W.A.R. Rose	Nil	Nil	Nil	Nil
White Shirley Poppy	Nil	Nil	Nil	Nil

all were placed under same conditions as experiments at same time with them. Results seem to show that no changes were produced in exp 4.5.6 or controls (other than dying will age) except that all liquids containing Thymol produced in about 4 days some crimson pink coloration of blue cornflowers.

Result points to thymol changing blue cornflowers slightly crimson pink in places

Exp with Thymol.

Specimens of Taps and distilled water were taken and a little thymol added.

17/7/03.

	dist H_2O	Taps H_2O	dist H_2O + Thy.	Taps H_2O + Thy.
Blue. Cornflower				
Blue Cornflower				
Blue Cornflower				
Red Geranium				
Red Geranium				
Red Geranium				
Yellow				
Yellow				
Yellow				
White				
White				
White				

Exp. 7.

Petals Blue Delphinium 30 grammes. pounded with silver sand. 200 CC of tap H_2O added. + a little thymol, allowed to stand 24 hrs., filtered. filtr washed with 100 CC of Tap H_2O, washings mixed with filtrate 3 vols of methylated spirit were added. allowed to stand 24 hrs. filtered, ppt washed with a little more spirit, ppt dried in air, ppt extracted with 30 CC dest H_2O + thymol for 24 hrs. and filtered and little thymol added 17/7/03

Blue Cornflower
Blue Cornflower
Blue Cornflower
Red Geranium
Red Geranium
Red Geranium.
Yellow
Yellow
Yellow
White
White
White

Exp 8.

Green leaves of Blue Delphinium 30 pieces were taken off same time from same plants as material in Exp 7. they were treated exactly same way and same time as exp 7.

Blue Cornflower
Blue Cornflower
Blue Cornflower
Red Geranium
Red Geranium
Red Geranium
Yellow
Yellow
Yellow
White
White
White

Exp 9

Stems of Blue Delphinium 30 frames.
were taken from same plants & same time
as material in exp 7 & 8. & treated same
way. for same time

Blue Cornflower
Blue Cornflower
Blue Cornflower
Red Geranium
Red Geranium
Red Geranium
Yellow
Yellow
Yellow
White
White
White

Exp 10

Calyx of Blue Delphinium 3 grams were taken from same plant same time as exp 7. 8. & 9. and treated same way for same time the amounts of fluid being in proportion to amount of original material used.

Blue Cornflower
Blue Cornflower
Blue Cornflower
Red Geranium
Red Geranium
Red Geranium
Yellow
Yellow
Yellow
White
White
White

Exp 7, 8, 9, 10. Controls.

Exp 7, 8, 9, 10 were done under exactly similiar conditions; the following controls were done with them. 17/7/03.

dest H_2O + Thymol.

Blue Cornflower
Blue Cornflower
Blue Cornflower
Red Geranium
Red Geranium
Red Geranium
Yellow
Yellow
Yellow
White
White
White

Exp 11

A Souvenir de S. Africa rose which had started to open its flower; a strand of wool was taken to some medicinal smelling Ane Blue (strong sol.) put into a glass vessel then strand of wool was dipped in blue sol., the glass vessel was then placed on level with rose, one end of wool placed in vessel other end in (wool 4 in long). the

The veins in flower leaves started to show blue green coloration in 2 or 3 days, & this increased up to about the end of a week when flower was well open. the blue green was dense but confined itself to the veins, & chiefly in the largest ones, but also in the medium & small ones to a less extent. (1904)

Exp 12

Test with pollen in Sugar Sol.

The pollen of various roses was taken and placed in some sterile 2% glucose sol. some were placed in incubator at 37°C & some left in room temp (warm day in summer)

These were then examined under microscope from time to time. Those in incubator showed budding of pollen first usually in about 5 min but varied with different roses.

Those at room temp usually took double time.

= Madam Charles Worth grew well ~~being~~ but being in length ½ the diameter of orig pollen + finally grew to 3 or 4 times in length

= Several tea roses including Souvenir de S.A. P. were also tested they all showed some growth but not so quick or so good as Madam C. Worth.

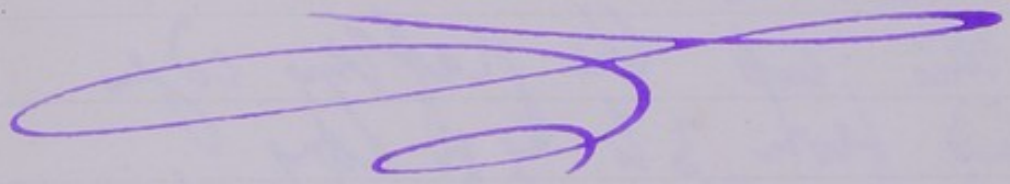
= Cells scraped from the green stamens of Viridiflora showed no growth, tested on 4 or 5 occasions. (1905

Exp 13.

Four. white Iceland poppy plants were placed under a Sachs bell jar with a $\frac{1}{4}$ in diam top hole & tube for ventilation & a wat[illegible] sol of yellow green stain placed between jars. plants which were in flower ceased to grow & in about 14 days commenced to rot.
No further flowers opened after first two days. So no flowers could be observed or seed collected.

Exp 14.

One white bath rose bud.
(flowers to open = about 7 days)
was placed under bell jar (as
= Exp 13.) flowers came out
up to about 10 days showed
no change from normal.
plant then withered.
No seed could be collected.



Exp 8.

Green leaves of Blue Delphinium 30 grms
well taken off same time from same
plants as material in Exp 7. they were
treated exactly same way and same
time as exp 7.

Blue Cornflower
Blue Cornflower
Blue Cornflower
Red Geranium
Red Geranium
Red Geranium
Yellow
Yellow
Yellow
Orchid
Orchid
Orchid

Exp 9

Stems of Blue Delphinium 30 frames.
were taken from same plants & same time
as material in exp 7+8. & treated same
way. for same time

Blue Cornflower
Blue Cornflower
Blue Cornflower
Red Geranium
Red Geranium
Red Geranium
Yellow
Yellow
Yellow
White
White
White

Exp 10

Calyx of Blue Delphinium 3 grammes were taken from same plant same time as exp 7. 8. & 9. and treated same way for same time the amounts of fluid being in proportion to amount of original material used.

Blue Cornflower
Blue Cornflower
Blue Cornflower
Red Geranium
Red Geranium
Red Geranium
Yellow
Yellow
Yellow
White
White
White

Exp 7, 8, 9, 10. Controls.

Exp 7, 8, 9, 10 were done under exactly similiar conditions; the following controls were done with them. 17/7/03.

dest H_2O + Thymol.

Blue Cornflower
Blue Cornflower
Blue Cornflower
Red Geranium
Red Geranium
Red Geranium
Yellow
Yellow
Yellow
White
White
White

Exp 7, 8, 9, 10. Controls.

Exp 7, 8, 9, 10 were done under exactly similiar conditions; the following controls were done with them. 17/7/03.

dest H_2O + Thymol.

Blue Cornflower
Blue Cornflower
Blue Cornflower
Red Geranium
Red Geranium
Red Geranium
Yellow
Yellow
Yellow
White
White
White

Eop 11

A Souvenir de S. Africa rose which had started to open its flower; a strand of wool was taken & some medicinal methylene Blue (strong sol.) put into a glass vessel then strand of wool was dipped in blue sol. & the glass vessel was then placed on level with rose, one end of wool placed in vessel & the end in (wool 4 in. long). the

The veins in flower leaves started to show blue green coloration in 2 or 3 days & this increased up to about the end of a week when flower was well open. the blue green was dense but confined itself to the veins, & chiefly in the largest ones, but also in the medium & small ones to a less extent. (1904)

Exp 12

Test with pollen in Sugar Sol.

The pollen of various roses was taken and placed in some sterile 2% glucose sol. some were placed in incubator at 37°C & some left in room temp (warm day in summer)

These were then examined under microscope from time to time
Those in incubator showed budding of pollen first usually in about 5 min but varied with different roses.
Those at room temp usually took double time

= Madam Charles Worth grew well ~~being 1/2 the~~ but being in length 1/2 the diameter of orig pollen + small proj. to 3 or 4 times in length

= Several tea roses including Souv. De S.A. P. were also tested they all showed some growth but not so quick or so good as Madam C. Worth.

= Cells scraped from the green stamens of Viridiflora showed no growth, tested on 4 or 5 occasions. (1905)

Exp 13.

Four. white Iceland poppy plants were placed under a Sachs bell jar with a ¼ in diam top hole & tube for ventilation & a watery sol of yellow green stain placed between jars. plants which were in flower ceased to grow. & in about 14 days commenced to rot.

No further flowers opened after first two days. So no flowers could be observed or seeds collected.

Exp 14.

One white bath rose tree (flowers to open in about 7 days) was placed under bell jar (as in Exp 13) flowers came out up to about 10 days showed no change from normal. plant then withered. No seeds could be collected.

Exp 15.

In the spring of 1906 when rose trees were pruned. 5 pieces of Viridiflora were grafted by method [illegible] on to 5 branches coming off of main stem of a vigorous growing Mad Charles Worth. Grafts were bound well with bast & ~~the~~ covered with grafting wax. Three grafts took but binding was removed to soon so they all died. [illegible]

In this exp the grafting edge varied from 3 to 4 in long made so that buds were present near cut edges in ~~the~~ hope that hybrid branches would appear at junction – the purple compliments the green but leaving a residual blue

Exp 16.

In the spring of 1906 at same time and manner as exp 15 only the reverse exp (ie the 5 pieces of the Mad Chalk Worth lines grafted on to 5 stems (2 on the left & 3 on each) of Viridiflora

These took but died for same reason as exp 15.

Grafting -

Exp 17

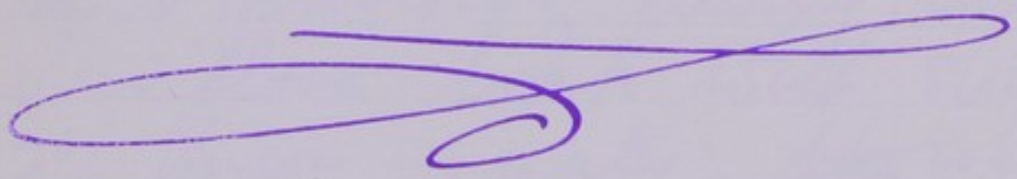
Some pollen from a rose was placed under bark of a young shoot of viridiflora after previously wadding under viridiflora bark with starch 2% glucose in water, ~~the~~ whole was then bound up with bast & grafting wax put over. removed later, cut partly healed gaped a little but later healed completely (i.e. autumn 1906)

Spring 1907. the branch, the only one on tree, was cut down to within 6 inches of ground. (i.e. 3" above place of exp) it shot out one branch only above exp scar, this flowered. & was cut back again, leaving three inches of the new wood 13/7/07. (see exp 21) grafting wax was wiped in a thin layer over scar & rose bud placed in

Conservatoire. Eighth [illegible] heat.

Exp 18

like exp 17 only the pollen was used from Lee died.



Exp ~~22~~ 21

13/7/07 A Rose A
was taken just as pettals were begining to drop. Ovaries with tubes were cut out and placed under the bark of a Viridiflora. The tree used was the same as Exp 17 two, one in incisions (longit) were made one ½ above & to the side of the other six ovaries were placed under bark of lower cut & 4 under upper cut ~~the~~ whole was bound tightly with bast & covered with grafting wax. The shoot cut off leaving one leaf with a bud above the upper cut & the tree placed in greenhouse

Exp 19

Exp 20.

Exp 21