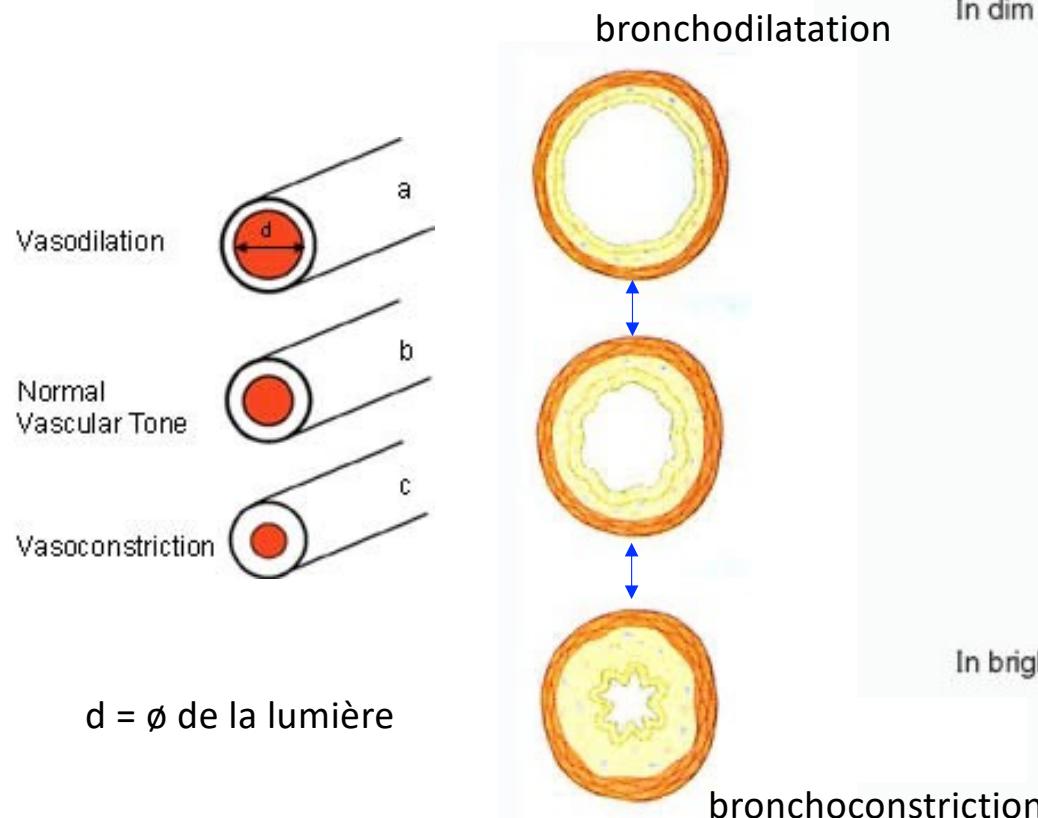


Diamètre de la pupille

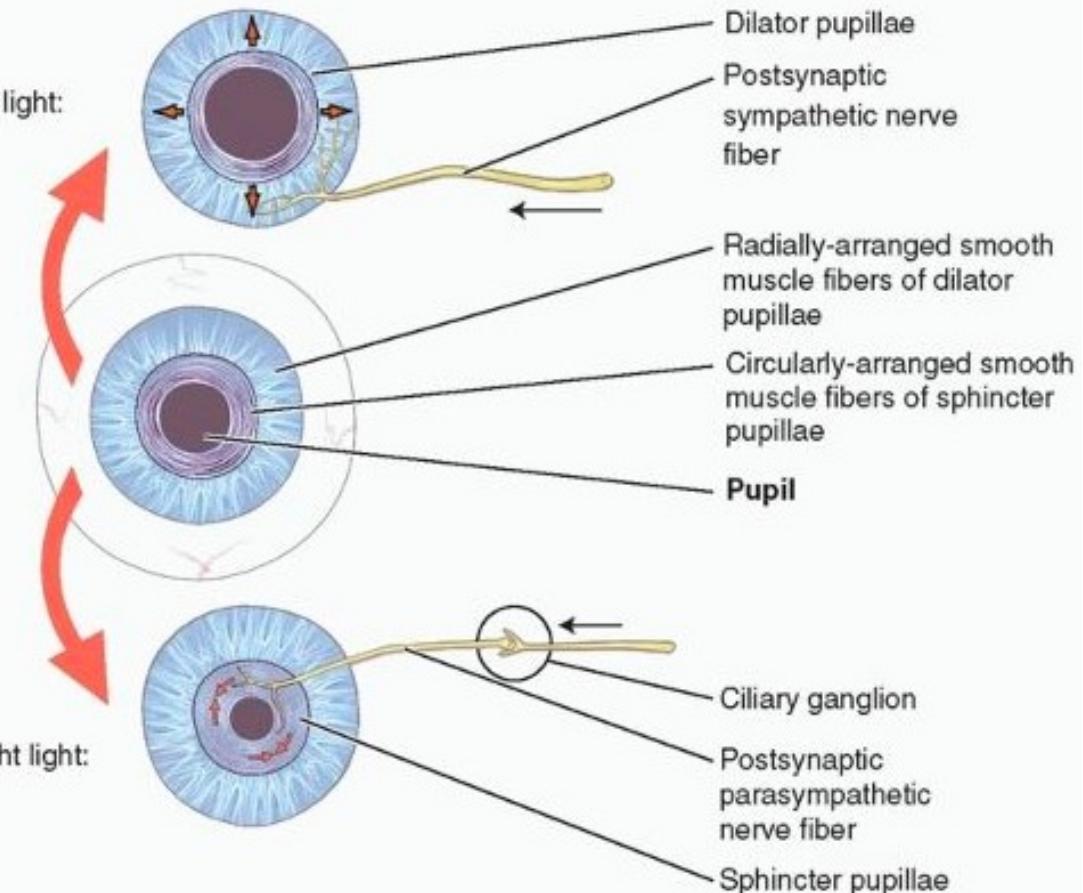
sympathique

Diamètre des artères



In dim light:

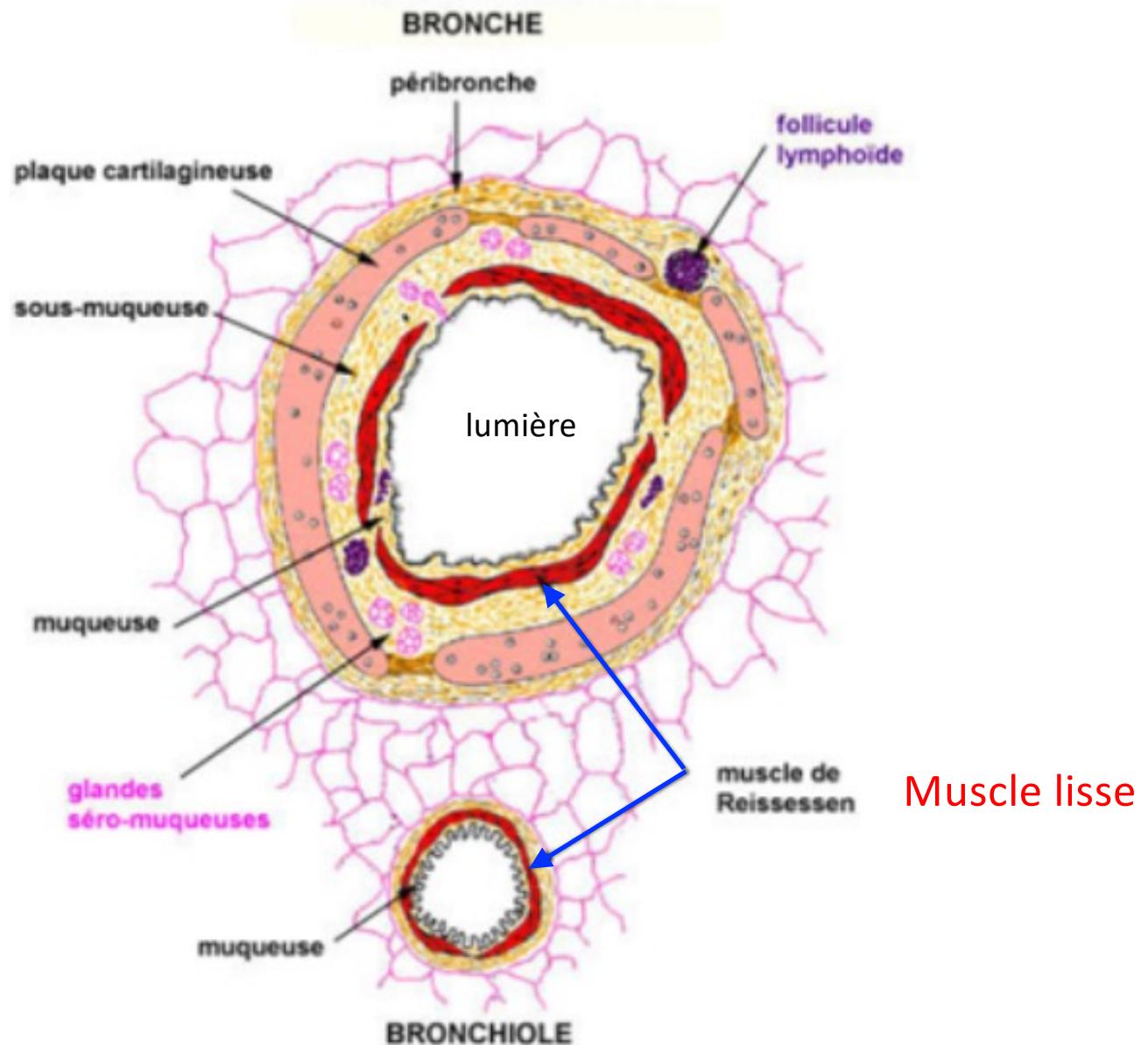
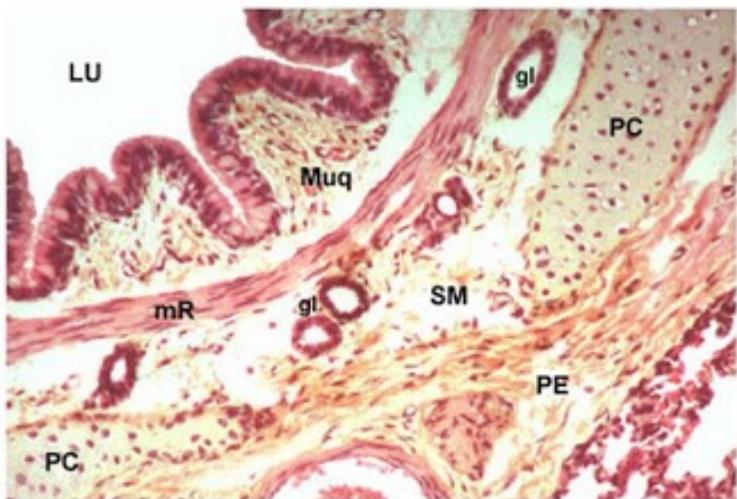
In bright light:



Diamètre des bronches

parasympathique

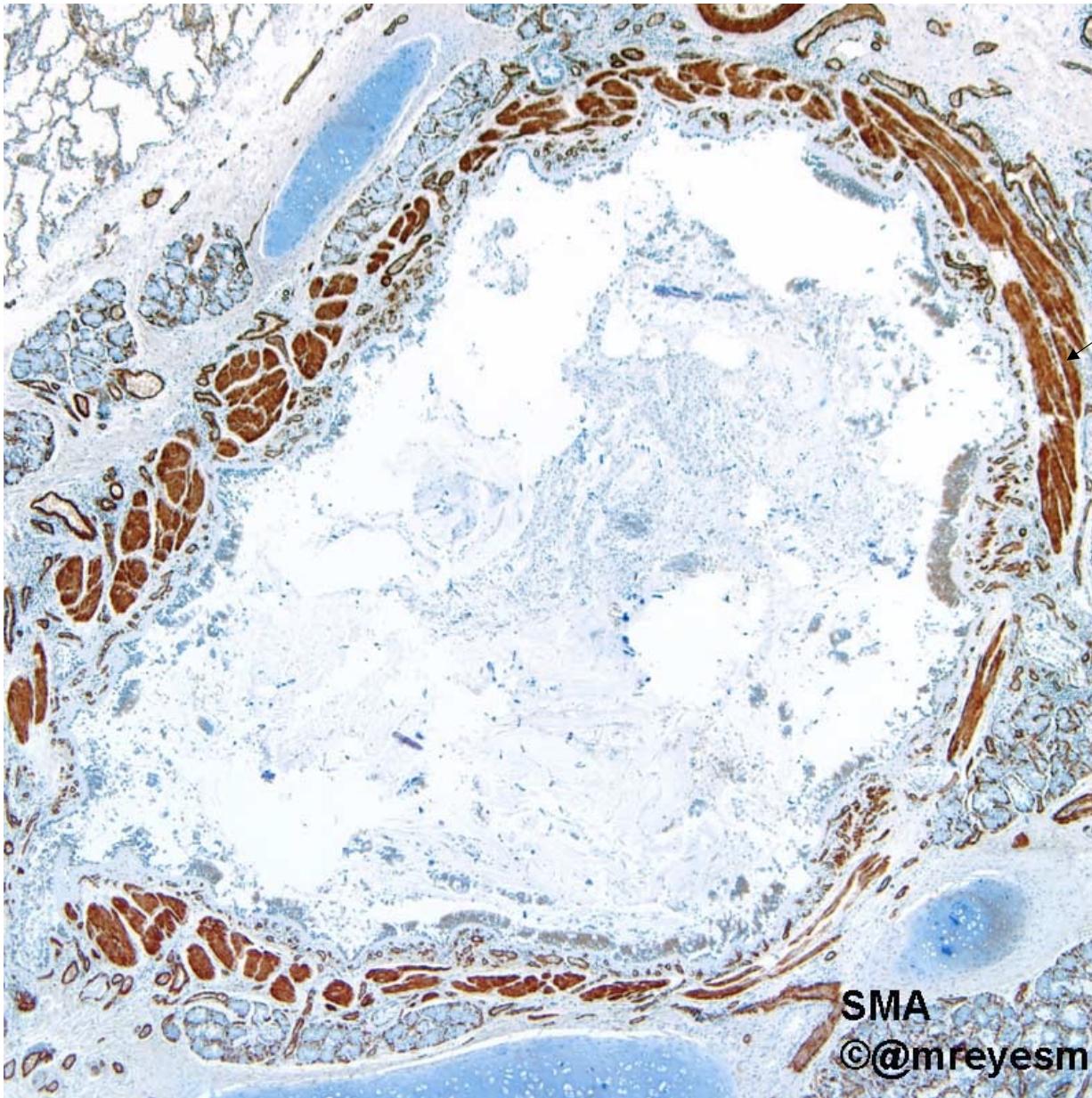
Muscle lisse bronchique



Cartilage présent → bronche

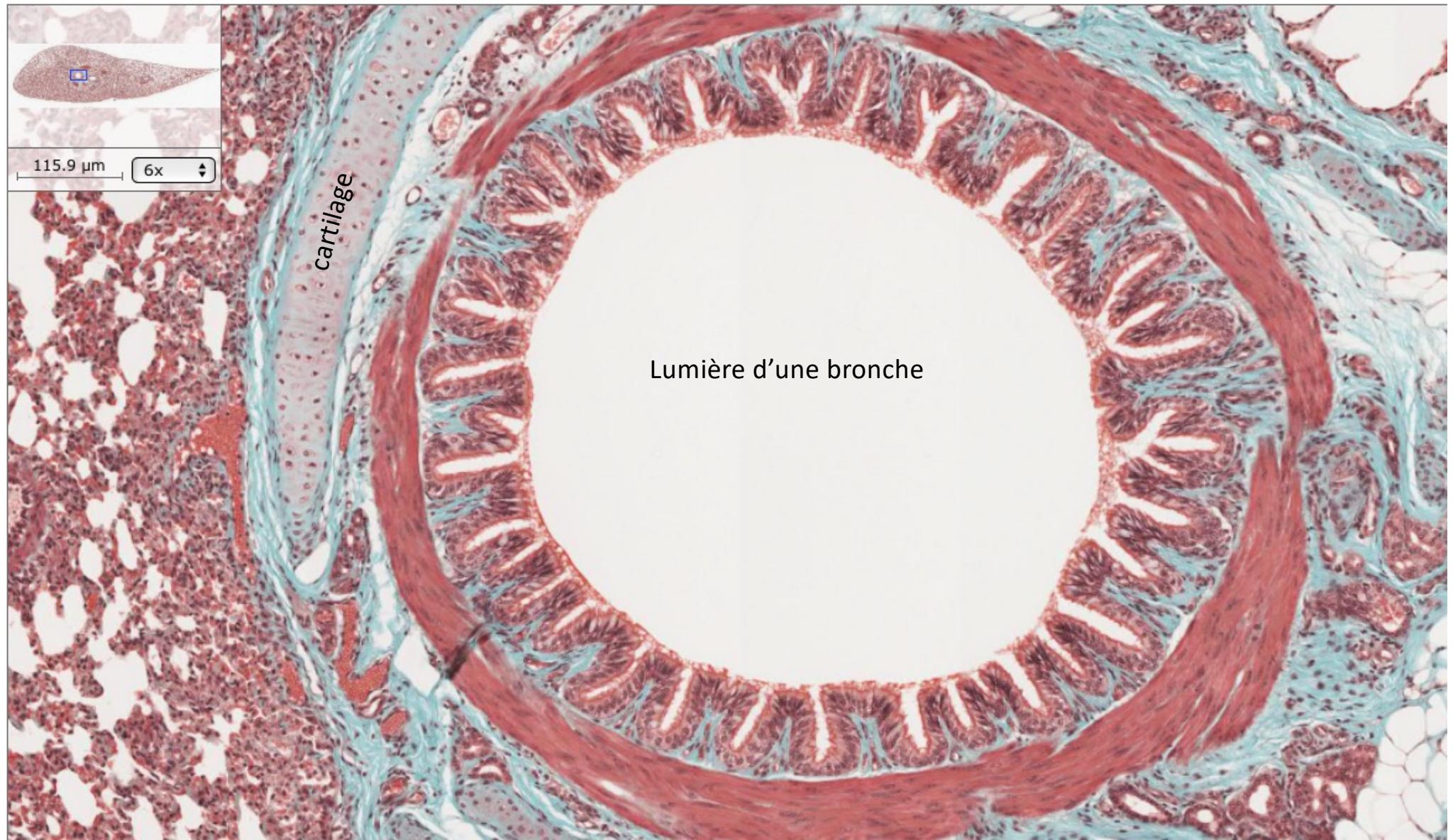
Cartilage absent → bronchiole

Bronche :
cartilage présent



Anticorps
anti-SMA

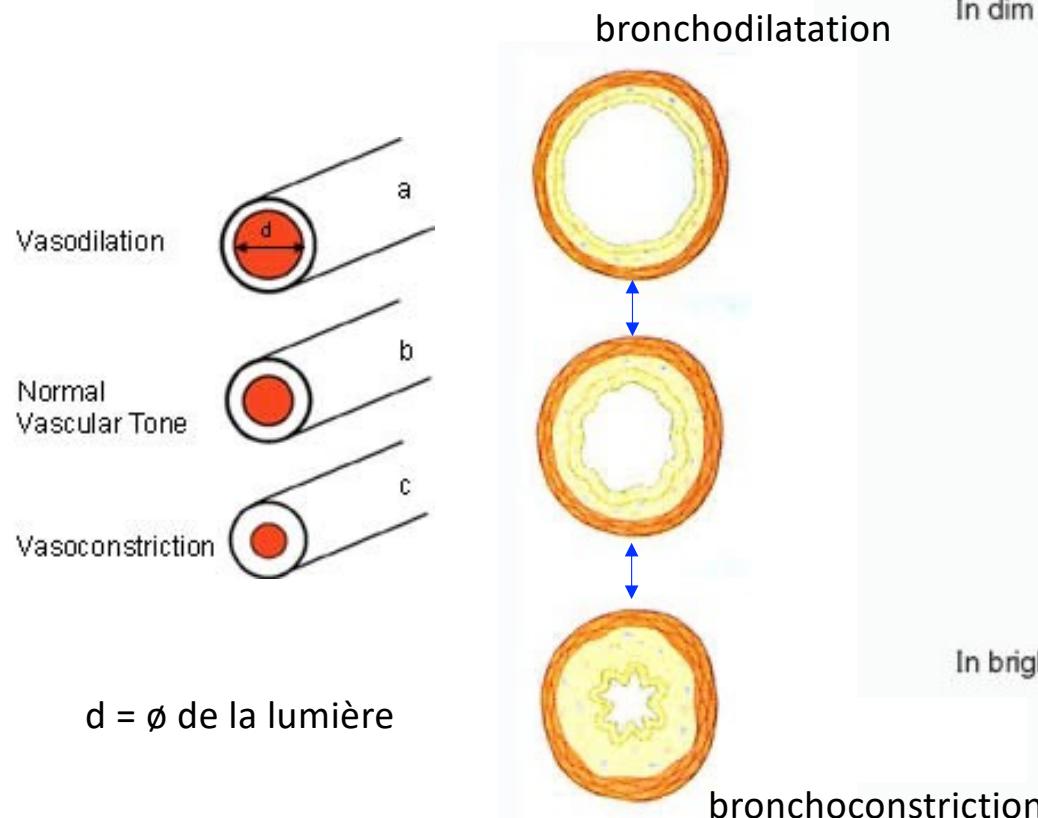
Muscle lisse
(ici hypertrophié !)



Diamètre de la pupille

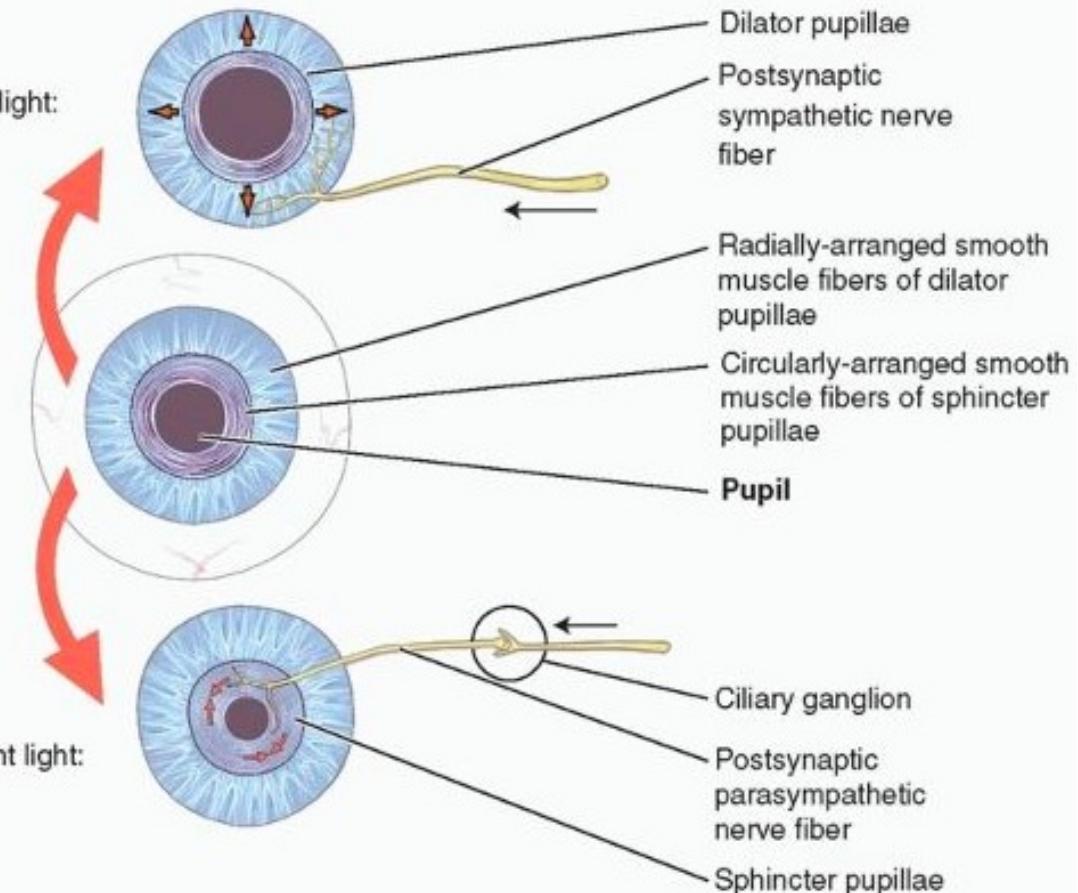
sympathique

Diamètre des artères



In dim light:

In bright light:



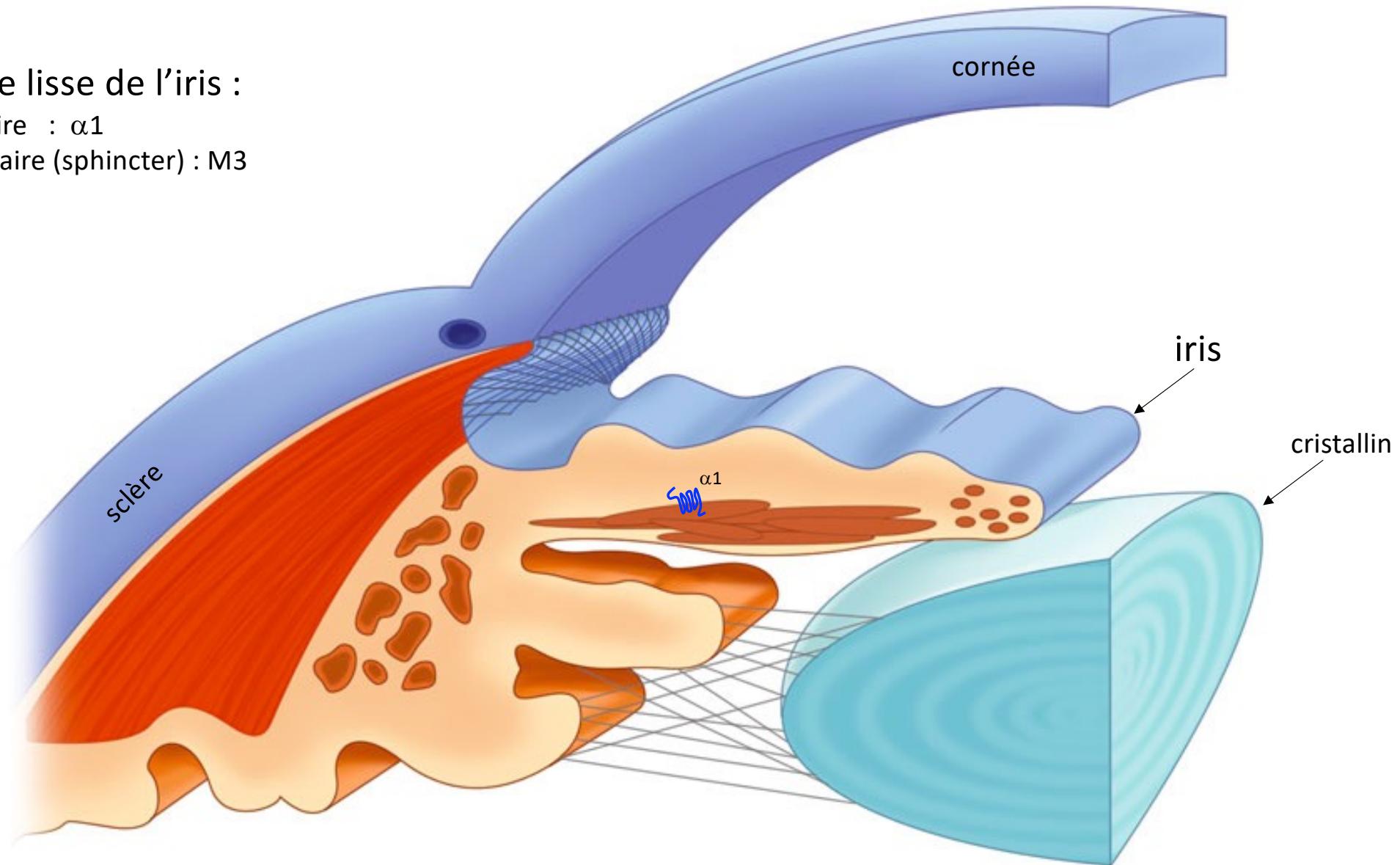
Diamètre des bronches

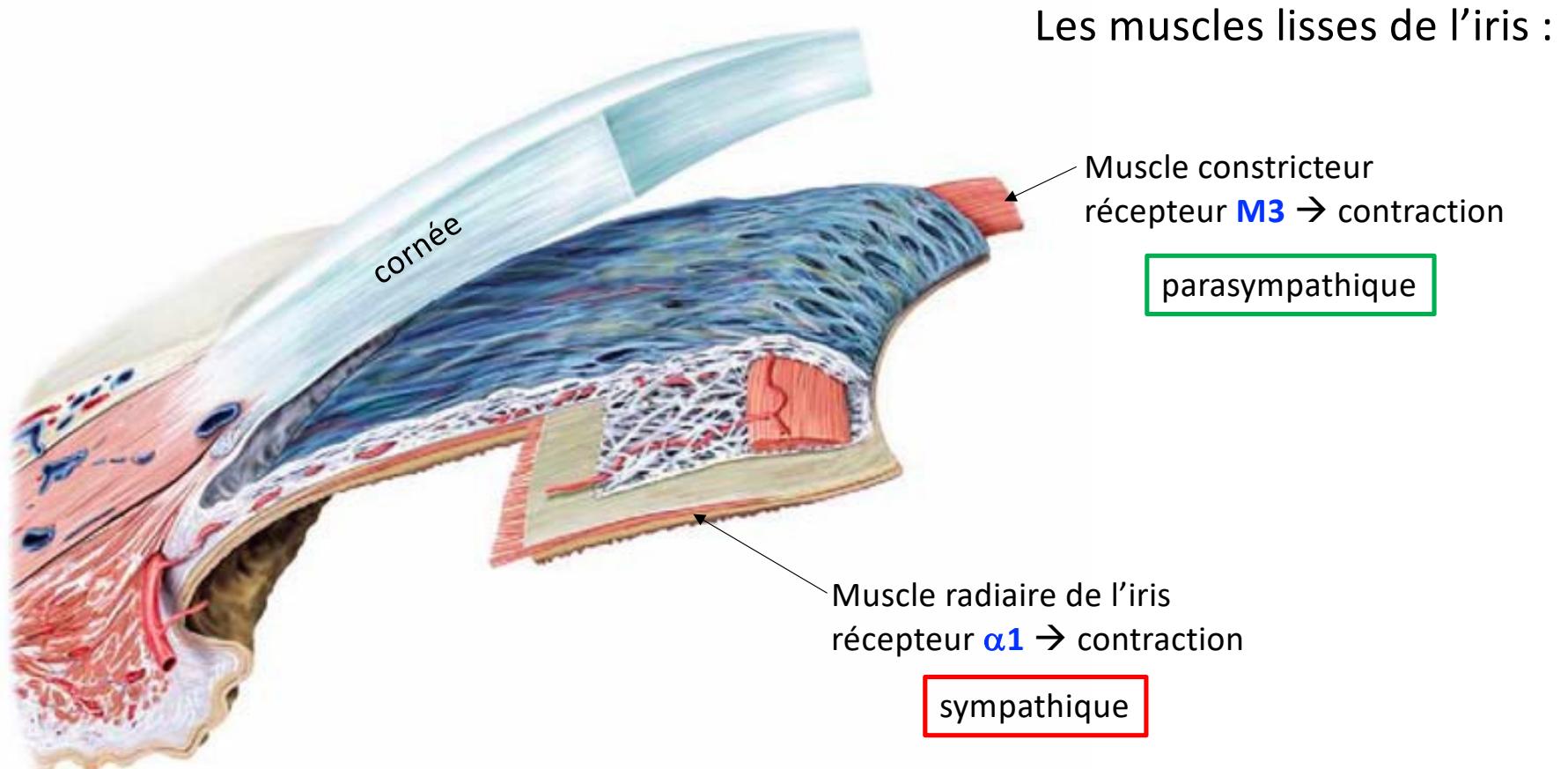
parasympathique

Muscle lisse de l'iris :

radiaire : $\alpha 1$

circulaire (sphincter) : M3





Actions du système nerveux autonome sur l'œil

Autonomic Pharmacology of the Eye and Related Structures

TISSUE	ADRENERGIC RECEPTORS		CHOLINERGIC RECEPTORS	
	SUBTYPE	RESPONSE	SUBTYPE	RESPONSE
Corneal epithelium	β_2	Unknown	M^a	Unknown
Corneal endothelium	β_2	Unknown	Undefined	Unknown
Iris radial muscle	α_1	Mydriasis		
Iris sphincter muscle			M_3	Miosis
Trabecular meshwork	β_2	Unknown		
Ciliary epithelium ^b	α_2/β_2	Aqueous production		
Ciliary muscle	β_2	Relaxation ^c	M_3	Accommodation
Lacrimal gland	α_1	Secretion	M_2, M_3	Secretion
Retinal pigment epithelium	α_1/β_2	H_2O transport/unknown		

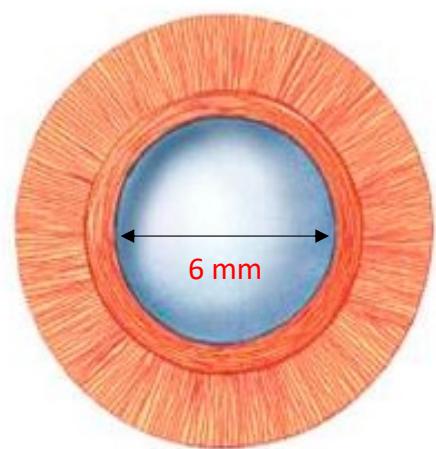
^aAlthough acetylcholine and choline acetyltransferase are abundant in the corneal epithelium of most species, the function of this neurotransmitter in this tissue is unknown. ^bThe ciliary epithelium also is the target of carbonic anhydrase inhibitors. Carbonic anhydrase isoenzyme II is localized to both the pigmented and nonpigmented ciliary epithelium. ^cAlthough β_2 adrenergic receptors mediate ciliary body smooth muscle relaxation, there is no clinically significant effect on accommodation.



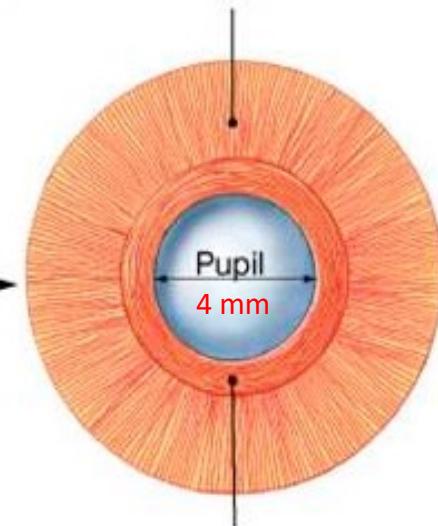
La mydriase



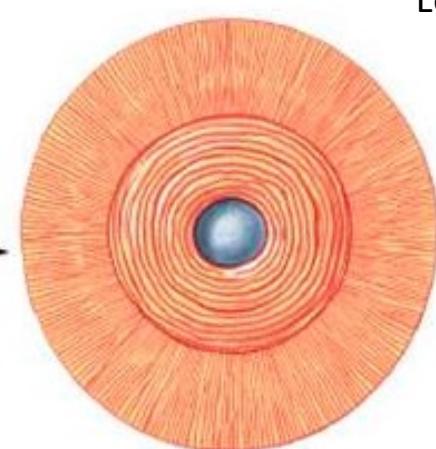
Le myosis



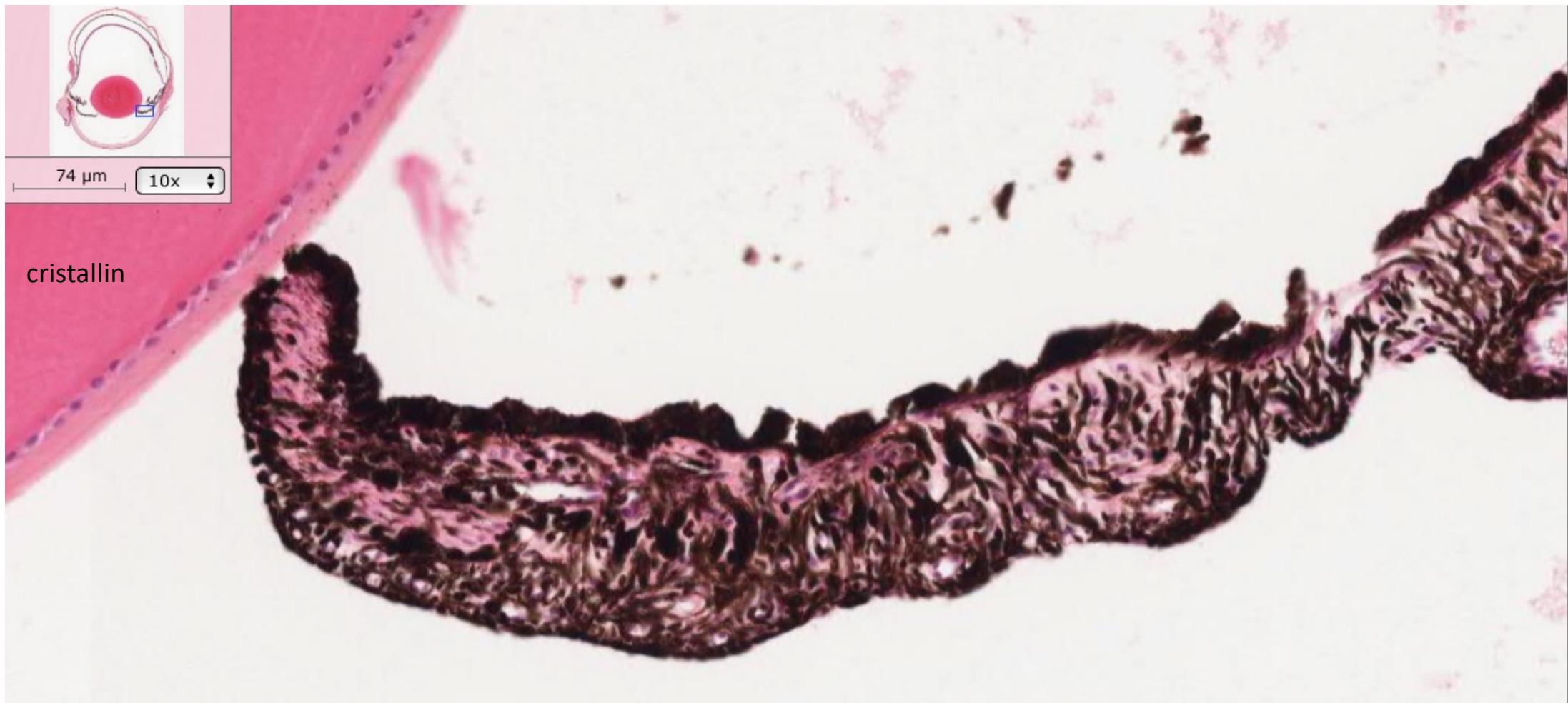
Dilators contract



Pupillary dilator muscles (radial)
Pupillary constrictor muscles (sphincter)



Constrictors contract



Muscle lisse de l'iris en rose