The pupil

Sir Thomas Browne's observations on the pupillary responses to light and shade befit his stature as a Fellow of the Royal College of Physicians. Both Victor Hugo and Thomas Hardy confuse the dark adaptation of the retina with the more rapid pupillary reaction to dark. It has been estimated that dark adaptation takes up to half an hour after a sudden transition from light to relative darkness. Thomas Mann’s observations on Felix Krull are intriguing. The capacity for some people to dilate their pupils voluntarily is well recognised, but I have had difficulty finding any authority who believes in voluntary meiosis, other than that occurring as a result of convergence spasm. Duke-Elder gives one reference, in the German literature, to hysterical meiosis. Dickens’ observations here, as almost always, are apposite. Whatever he found, Eugene Wrayburn’s surgeon gave a gloomy prognosis, confirming, not for the first time, the fallability of the medical profession in predicting the outcome of head injury.

Sir Thomas Browne, 1658, The garden of Cyrus
And therefore in diffused and open aspects, men hold their hand above their eye, and make an artificial brow, whereby they direct the dispersed rays of sight, and by this shade preserve a moderate light in the chamber of the eye; keeping the pupilla plump and fair; and not contracted or shrunk as in light and vagrant vision.

Victor Hugo, 1862, Les miserables
The pupil dilates in darkness and in the end finds light, just as the soul dilates in misfortune and in the end finds God.

Charles Dickens, 1864-5, Our mutual friend
He appeared irreproachable. He did not retain it, but laid it gently down, took a candle, looked more closely at the injuries on the head, and at the pupils of the eyes. That done, he replaced the candle and took the hand again.

Thomas Hardy, 1887, The woodlanders
For her eyes were fresh from the blaze, and here there was no street lamp or lantern to form a kindly transition between the inner glare and the outer dark... but the pupils of her young eyes soon expanded, and she could see well enough for her purpose.

Thomas Mann, 1954, Confessions of Felix Krull, confidence man
It is a well-known fact that the muscles controlling the pupils of our eyes react involuntarily to the intensity of the light falling upon them. I decided to bring this reaction under voluntary control. I would stand in front of a mirror, concentrating all my powers in a command to my pupils to contract or expand... but later I actually succeeded in contracting them to the merest points and then expanding them to great, round mirror-like pools.

G D PERKIN
Regional Neurosciences Centre, Charing Cross Hospital, London W6 8RF, UK