



2024 Jeantet-Collen Prize for Translational Medicine

CHARLES SWANTON, of British Nationality, is awarded the 2024 Jeantet-Collen Prize for Translational Medicine for his groundbreaking discoveries in cancer genetics and evolution, leading to insights into how tumours evolve, spread, and develop resistance to drugs.

Charles Swanton has changed the way the world understands cancer by careful and impactful demonstrations of cancer as an evolutionary process: cancer proceeds by Darwinian variation and selection of competitive cell clones. He has demonstrated that branched evolution of cancer is ubiquitous; deciphered how it is shaped by genome instability, therapy and immunity, and how this can be exploited for therapy. He has also shown how inflammatory mechanisms can drive cancer initiation. He has discovered functional mechanisms driving cancer chromosomal instability and somatic mutagenesis and developed insights into mechanisms of cancer immune surveillance and evasion.