



**CHEMICAL CONVERSION:** The oxBS-Seq method converts 5hmCs to 5-formylcytosines (5fCs) using chemical oxidation, while leaving 5mCs alone. Bisulfite treatment converts 5fCs and unmodified cytosines to read as thymines following PCR. The 5mCs continue to read as cytosines. Comparing an oxBS-Seq run with a run of traditional bisulfite sequencing pinpoints the precise locations of 5hmCs.