Supplementary information

An analysis of the physicochemical properties of oral drugs from 2000 to 2022

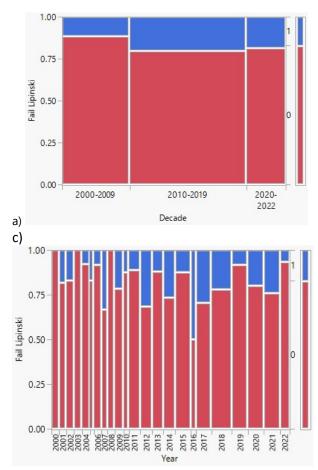
Table S1 – Cross-correlation coefficients (r^2) of Lipinski descriptors for the dataset. n = 372

	HBAs	HBDs	clogP
MWt	0.69	0.27	0.65
clogP	0.12	-0.14	
HBDs	0.27		

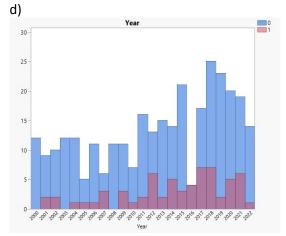
Table S2 – Analysis of mean clogP values for neutral and charged compounds

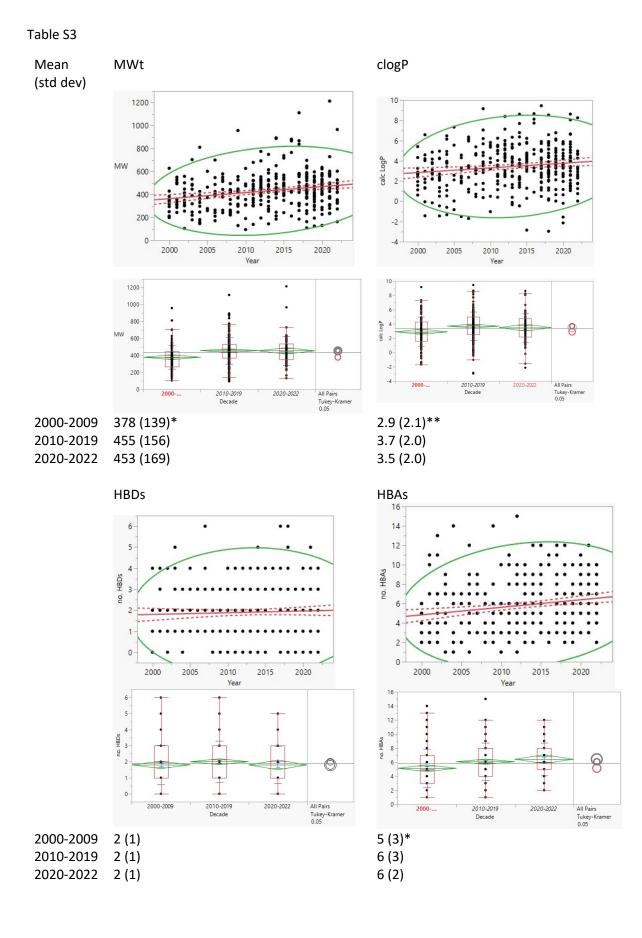
Level	Ν	Mean	Std Dev	Std Err Mean	Lower 95%	Upper 95%
Neutral	149		2.1490323	0.1760556	3.0822147	3.7780295
Charged	229		2.0254492	0.1338455	3.1750499	3.7025142

Figure S1 – Lipinski fails (blue) and passes (red) over time a) Mosaic plot by decade; b) Table of counts; c) Mosaic plot by year; d) Histogram by year.



b)			
Count	Pass	Fail	Total
2000-	99	13	112
2009	(88%)	(12%)	
2010-	155	39	194
2019	(80%)	(20%)	
2020-	53	12	65
2022	(82%)	(18%)	
Total	307	64	371





*Value statistically significantly different (Tukey-Kramer method), ** significantly different from 2010-2019 but not 2020-2022.

Figure S2 – Comparison of a) rotatable bond count; b) aromatic ring count; c) Fsp³ between the Lipinski passes and fails.

