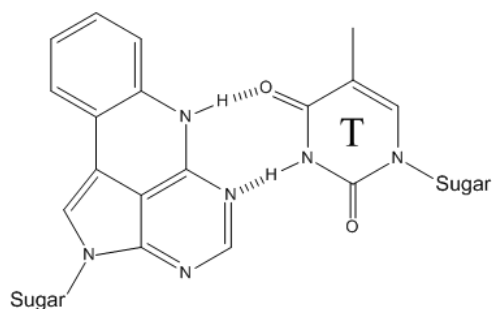


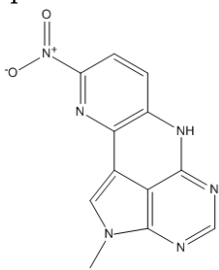
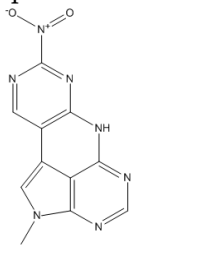
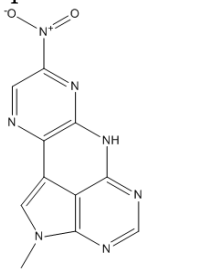
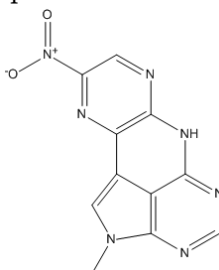
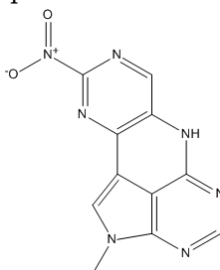
Library of potential nucleobase analogue structures

Three lowest energy electronic transitions were predicted by TDDFT B3LYP/6-311+G(2d) calculations on either the B3LYP/6-31G** or AM1 optimized geometries. All spectra of nitro-aromatics have been predicted *without* solvation, while the transitions of most non-nitro compounds have been predicted *with* a CPCM solvation model for H₂O unless otherwise stated. *f* denotes oscillator strength.

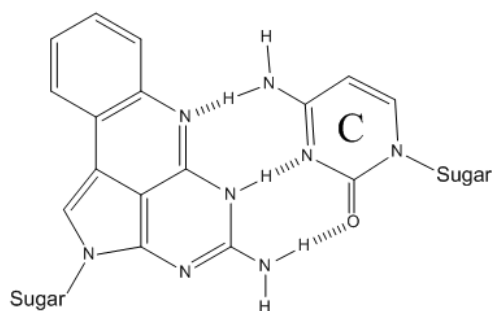
ADENINE ANALOGUES

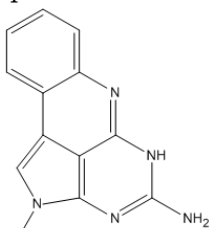
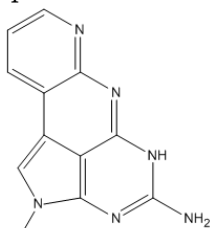
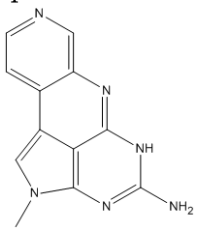
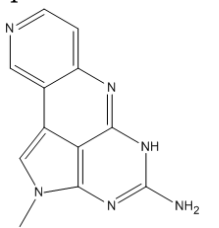
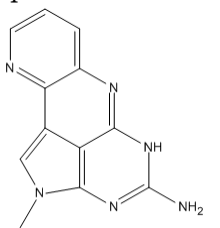
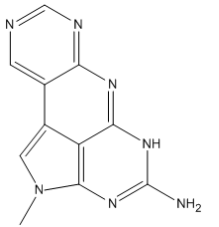
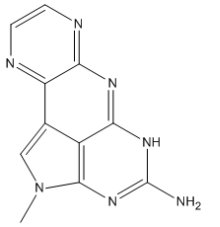
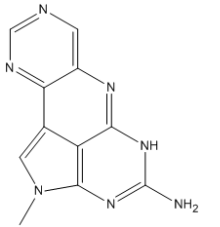
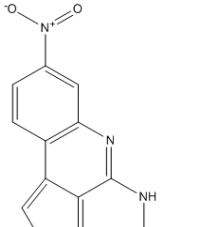
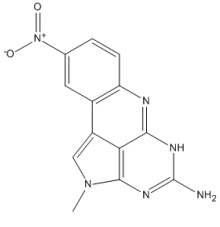


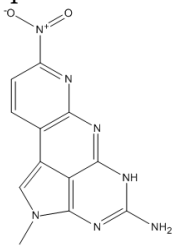
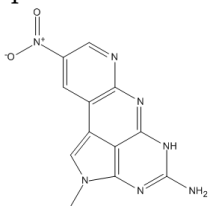
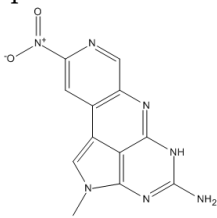
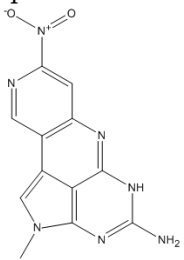
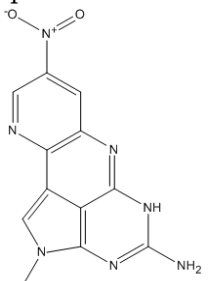
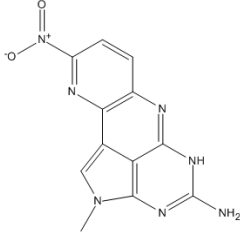
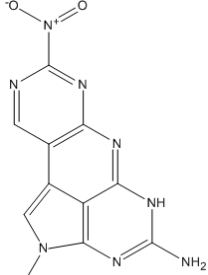
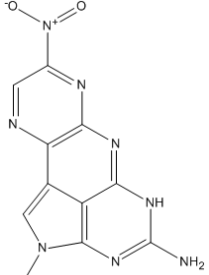
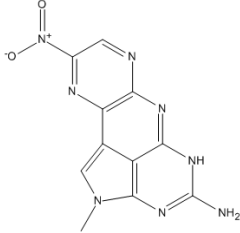
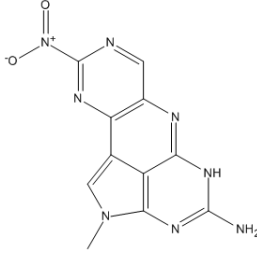
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qA6 368 nm <i>f</i> =0.088 339 nm <i>f</i> =0.17 279 nm <i>f</i> =0.051	qA7 388 nm <i>f</i> =0.31 346 nm <i>f</i> =0.003 298 nm <i>f</i> =0.0045	qA8 376 nm <i>f</i> =0.15 346 nm <i>f</i> =0.14 287 nm <i>f</i> =0.0047	qA9 496 nm <i>f</i> =0.12 346 nm <i>f</i> =0.017 334 nm <i>f</i> =0.00	qA10 478 nm <i>f</i> =0.09 340 nm <i>f</i> =0.07 331 nm <i>f</i> =0.00
qA11 470 nm <i>f</i> =0.17 355 nm <i>f</i> =0.072 347 nm <i>f</i> =0.00	qA12 480 nm <i>f</i> =0.0971 354 nm <i>f</i> =0.1501 330 nm <i>f</i> =0.0000	qA13 450 nm <i>f</i> =0.052 354 nm <i>f</i> =0.13 342 nm <i>f</i> =0.000	qA14 459 nm <i>f</i> =0.086 350 nm <i>f</i> =0.072 347 nm <i>f</i> =0.000	qA15 504 nm <i>f</i> =0.14 353 nm <i>f</i> =0.088 334 nm <i>f</i> =0.000

qA16	qA17	qA18	qA19	qA20
				
460 nm $f=0.12$ 359 nm $f=0.14$ 343 nm $f=0.000$	432 nm $f=0.11$ 364 nm $f=0.098$ 358 nm $f=0.0017$	473 nm $f=0.21$ 366 nm $f=0.077$ 349 nm $f=0.0001$	456 nm $f=0.15$ 375 nm $f=0.15$ 342 nm $f=0.000$	431 nm $f=0.064$ 376 nm $f=0.17$ 359 nm $f=0.0009$

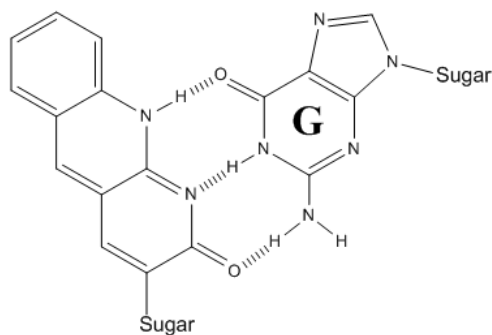
GUANINE ANALOGUES

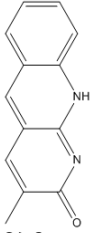
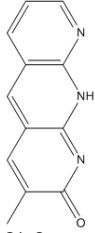
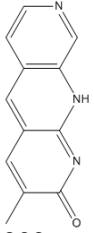
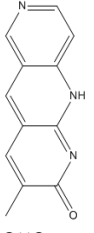
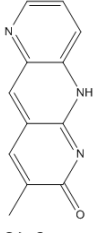


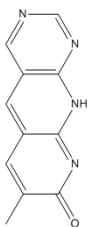
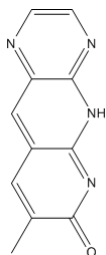
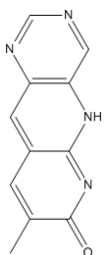
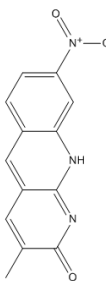
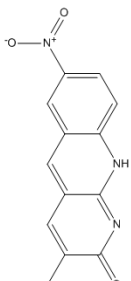
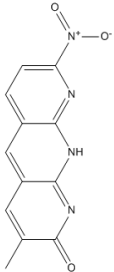
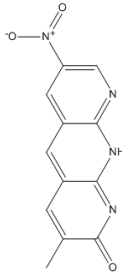
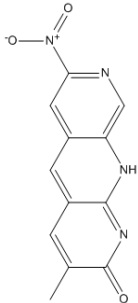
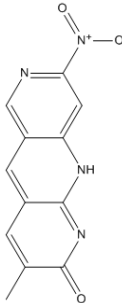
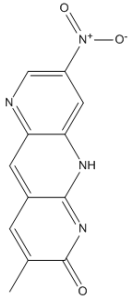
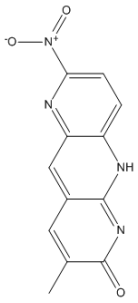
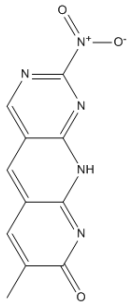
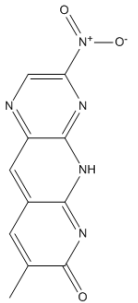
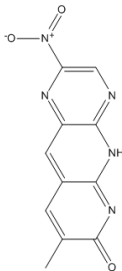
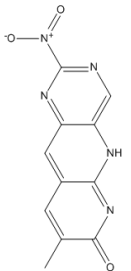
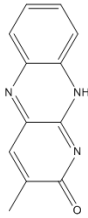
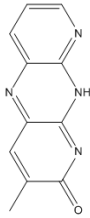
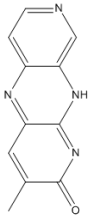
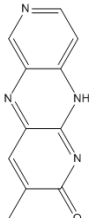
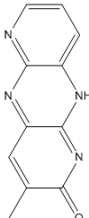
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347 nm $f=0.049$ 337 nm $f=0.17$ 308 nm $f=0.18$	366 nm $f=0.20$ 351 nm $f=0.035$ 303 nm $f=0.17$	373 nm $f=0.051$ 340 nm $f=0.17$ 302 nm $f=0.18$	369 nm $f=0.069$ 334 nm $f=0.11$ 299 nm $f=0.18$	366 nm $f=0.18$ 351 nm $f=0.078$ 305 nm $f=0.17$
qG6	qG7	qG8	qG9	qG10
				
386 nm $f=0.11$ 353 nm $f=0.085$ 295 nm $f=0.16$	408 nm $f=0.2$ 356 nm $f=0.035$ 313 nm $f=0.004$	393 nm $f=0.099$ 356 nm $f=0.14$ 295 nm $f=0.004$	494 nm $f=0.054$ 348 nm $f=0.005$ 334 nm $f=0.000$	474 nm $f=0.14$ 344 nm $f=0.031$ 333 nm $f=0.000$

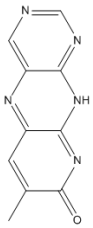
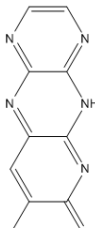
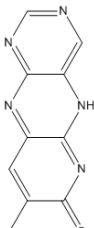
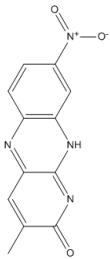
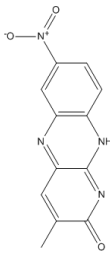
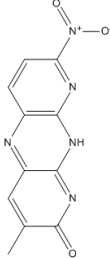
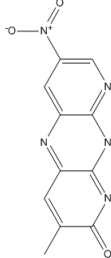
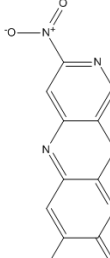
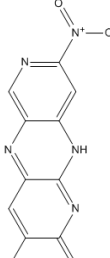
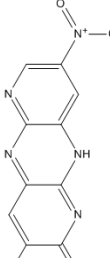
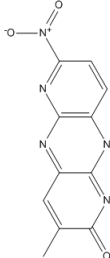
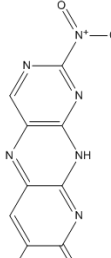
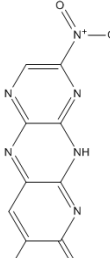
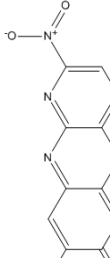
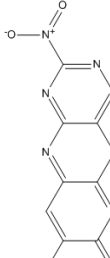
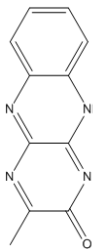
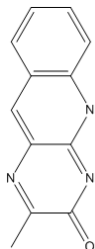
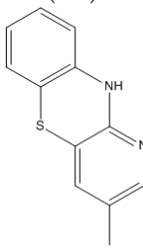
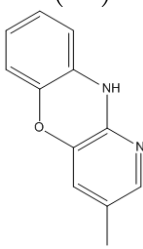
qG11 	qG12 	qG13 	qG14 	qG15 
465 nm $f=0.092$ 355 nm $f=0.074$ 350 nm $f=0.000$	478 nm $f=0.15$ 344 nm $f=0.055$ 338 nm $f=0.000$	450 nm $f=0.11$ 347 nm $f=0.056$ 347 nm $f=0.000$	451 nm $f=0.028$ 349 nm $f=0.053$ 347 nm $f=0.000$	510 nm $f=0.067$ 352 nm $f=0.069$ 345 nm $f=0.00$
qG16 	qG17 	qG18 	qG19 	qG20 
464 nm $f=0.17$ 352 nm $f=0.054$ 351 nm $f=0.000$	416 nm $f=0.045$ 367 nm $f=0.12$ 352 nm $f=0.007$	479 nm $f=0.12$ 372 nm $f=0.0008$ 371 nm $f=0.091$	465 nm $f=0.19$ 368 nm $f=0.001$ 367 nm $f=0.073$	438 nm $f=0.12$ 372 nm $f=0.058$ 370 nm $f=0.029$

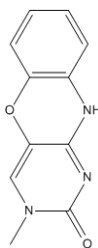
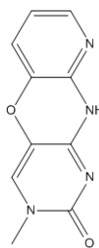
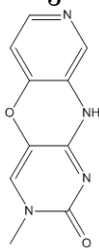
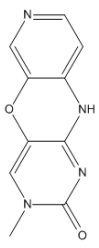
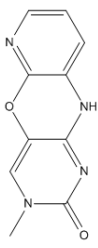
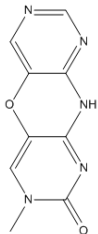
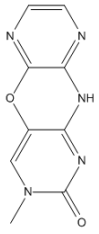
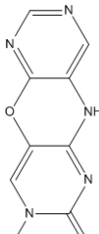
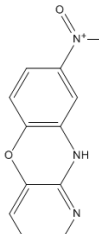
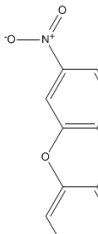
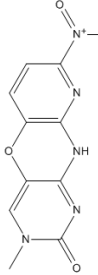
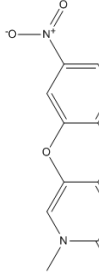
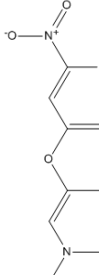
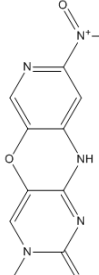
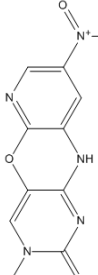
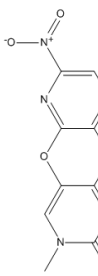
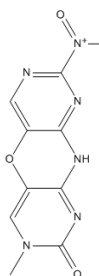
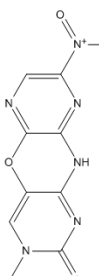
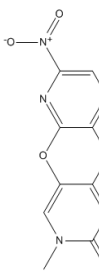
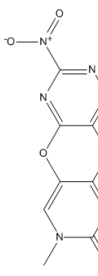
CYTOSINE ANALOGUES

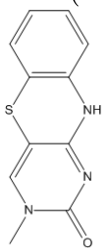
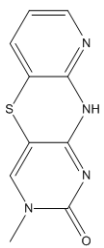
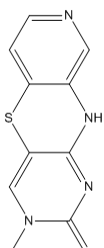
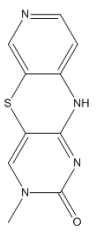
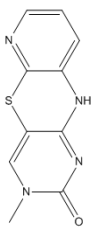
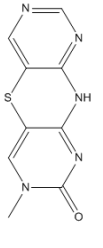
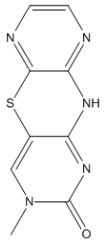
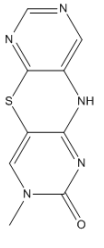
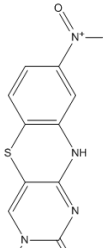
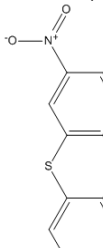
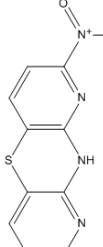
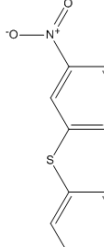
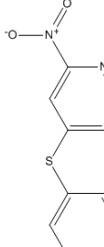
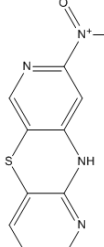
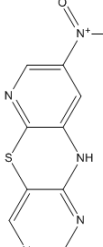
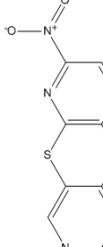
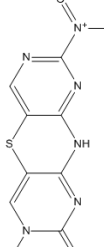
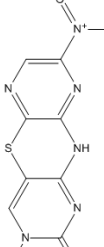
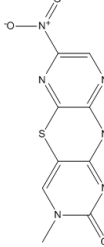
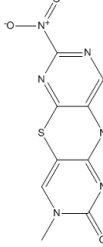


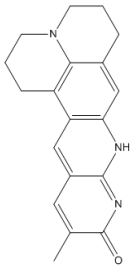
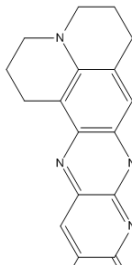
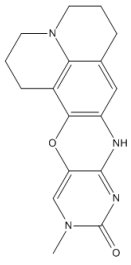
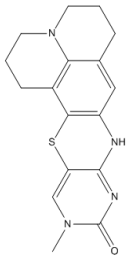
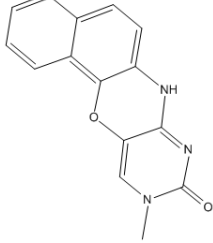
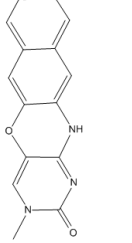
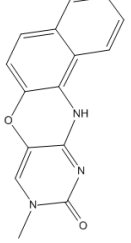
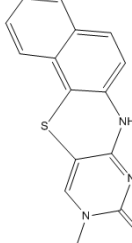
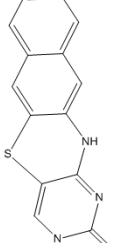
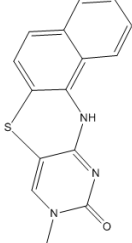
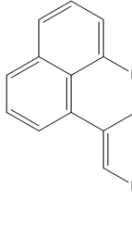
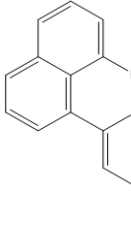
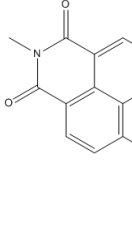
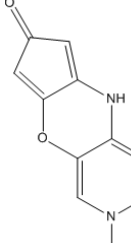
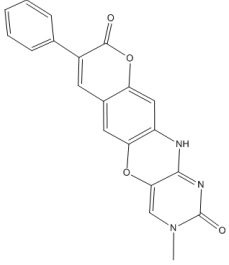
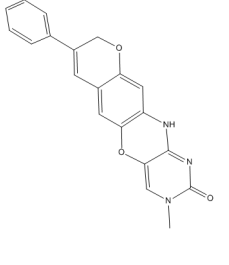
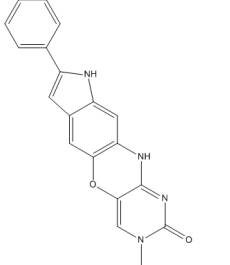
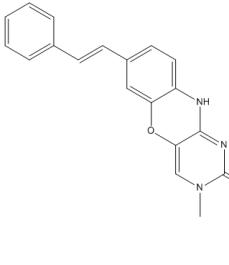
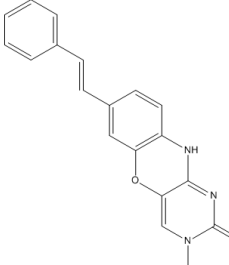
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tC^C6  358 nm f=0.69 357 nm f=0.0004 326 nm f=0.010	tC^C7  385 nm f=0.66 370 nm f=0.0001 348 nm f=0.0020	tC^C8  385 nm f=0.40 374 nm f=0.00 346 nm f=0.0020	tC^C9  464 nm f=0.00 445 nm f=0.24 382 nm f=0.17	tC^C10  426 nm f=0.00 391 nm f=0.21 369 nm f=0.17
tC^C11  472 nm f=0.00 429 nm f=0.36 372 nm f=0.085	tC^C12  441 nm f=0.00 394 nm f=0.26 371 nm f=0.21	tC^C13  437 nm f=0.00 385 nm f=0.23 363 nm f=0.0083	tC^C14  449 nm f=0.00 407 nm f=0.33 357 nm f=0.00	tC^C15  480 nm f=0.00 449 nm f=0.30 379 nm f=0.11
tC^C16  443 nm f=0.00 390 nm f=0.46 362 nm f=0.037	tC^C17  456 nm f=0.00 395 nm f=0.43 364 nm f=0.0052	tC^C18  497 nm f=0.00 437 nm f=0.41 381 nm f=0.090	tC^C19  467 nm f=0.00 397 nm f=0.52 361 nm f=0.032	tC^C20  460 nm f=0.00 395 nm f=0.29 364 nm f=0.0074
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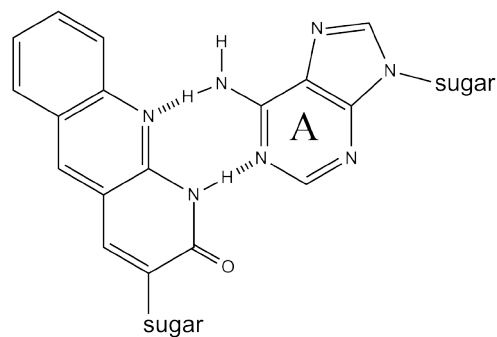
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tC^N11  487 nm f=0.00 419 nm f=0.36 403 nm f=0.0001	tC^N12  462 nm f=0.00 389 nm f=0.0002 385 nm f=0.47	tC^N13  469 nm f=0.00 396 nm f=0.19 385 nm f=0.0003	tC^N14  471 nm f=0.00 396 nm f=0.32 388 nm f=0.0003	tC^N15  495 nm f=0.00 436 nm f=0.30 412 nm f=0.0001
tC^N16  469 nm f=0.0001 392 nm f=0.0002 391 nm f=0.43	tC^N17  476 nm f=0.0001 404 nm f=0.033 386 nm f=0.40	tC^N18  510 nm f=0.00 435 nm f=0.00 426 nm f=0.39	tC^N19  488 nm f=0.00 414 nm f=0.00 393 nm f=0.50	tC^N20  485 nm f=0.00 414 nm f=0.054 403 nm f=0.19
tC^N21  454 nm f=0.00 412 nm f=0.29 363 nm f=0.41	tC^C21  467 nm f=0.0001 374 nm f=0.31 321 nm f=0.18	tC^(-O)  349 nm f=0.014 344 nm f=0.12 306 nm f=0.12	tC^O(-O)  346 nm f=0.21 342 nm f=0.07 309 nm f=0.097	

tC^0_1  362 nm $f=0.19$ 294 nm $f=0.091$ 290 nm $f=0.003$	tC^0_2  361 nm $f=0.21$ 308 nm $f=0.10$ 288 nm $f=0.084$	tC^0_3  352 nm $f=0.12$ 300 nm $f=0.20$ 281 nm $f=0.009$	tC^0_4  363 nm $f=0.12$ 290 nm $f=0.074$ 286 nm $f=0.049$	tC^0_5  356 nm $f=0.21$ 310 nm $f=0.14$ 288 nm $f=0.057$
tC^0_6  365 nm $f=0.13$ 304 nm $f=0.072$ 287 nm $f=0.14$	tC^0_7  358 nm $f=0.30$ 332 nm $f=0.037$ 283 nm $f=0.086$	tC^0_8  350 nm $f=0.094$ 315 nm $f=0.26$ 283 nm $f=0.051$	tC^0_9  438 nm $f=0.097$ 349 nm $f=0.037$ 333 nm $f=0.25$	tC^0_{10}  452 nm $f=0.072$ 333 nm $f=0.21$ 332 nm $f=0.00$
tC^0_{11}  418 nm $f=0.12$ 346 nm $f=0.21$ 342 nm $f=0.00$	tC^0_{12}  454 nm $f=0.073$ 331 nm $f=0.00$ 330 nm $f=0.13$	tC^0_{13}  424 nm $f=0.042$ 342 nm $f=0.00$ 324 nm $f=0.10$	tC^0_{14}  417 nm $f=0.045$ 342 nm $f=0.00$ 340 nm $f=0.18$	tC^0_{15}  444 nm $f=0.10$ 347 nm $f=0.080$ 334 nm $f=0.18$
tC^0_{16}  434 nm $f=0.097$ 343 nm $f=0.00$ 332 nm $f=0.040$	tC^0_{17}  397 nm $f=0.043$ 354 nm $f=0.057$ 349 nm $f=0.13$	tC^0_{18}  419 nm $f=0.14$ 353 nm $f=0.17$ 340 nm $f=0.00$	tC^0_{19}  407 nm $f=0.058$ 357 nm $f=0.0055$ 333 nm $f=0.0047$	tC^0_{20}  407 nm $f=0.058$ 357 nm $f=0.0055$ 333 nm $f=0.0047$

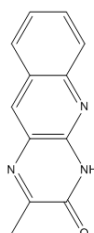
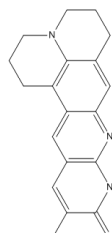
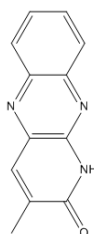
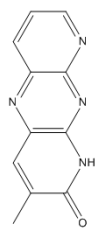
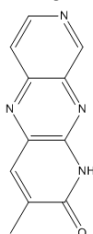
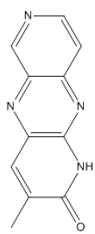
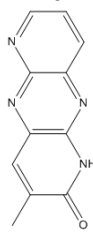
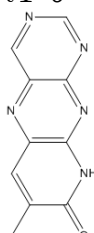
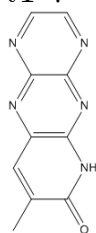
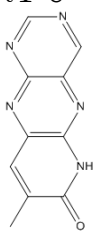
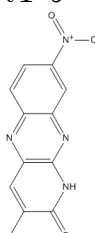
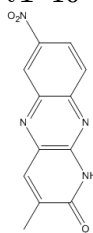
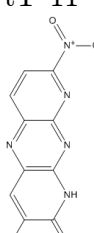
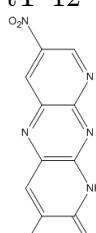
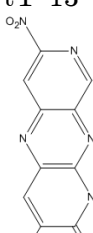
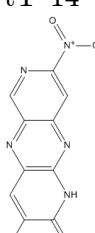
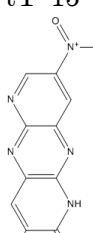
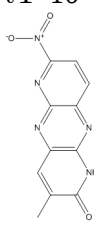
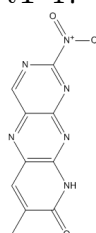
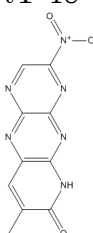
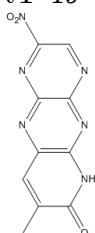
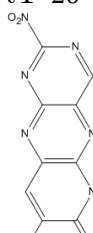
tC^S1 (tC)  369 nm f=0.092 309 nm f=0.077 297 nm f=0.029	tC^S2  370 nm f=0.084 320 nm f=0.11 306 nm f=0.098	tC^S3  370 nm f=0.044 312 nm f=0.19 298 nm f=0.024	tC^S4  373 nm f=0.051 308 nm f=0.076 297 nm f=0.052	tC^S5  372 nm f=0.082 326 nm f=0.17 306 nm f=0.060
tC^S6  380 nm f=0.049 323 nm f=0.060 304 nm f=0.14	tC^S7  375 nm f=0.15 363 nm f=0.092 303 nm f=0.097	tC^S8  380 nm f=0.020 334 nm f=0.25 302 nm f=0.055	tC^S9  458 nm f=0.080 361 nm f=0.015 345 nm f=0.16	tC^S10 (tC_{nitro})  458 nm f=0.043 346 nm f=0.063 331 nm f=0.0042
tC^S11  443 nm f=0.095 357 nm f=0.14 344 nm f=0.0007	tC^S12  466 nm f=0.046 347 nm f=0.016 330 nm f=0.0003	tC^S13  437 nm f=0.023 343 nm f=0.015 342 nm f=0.0015	tC^S14  437 nm f=0.042 350 nm f=0.11 344 nm f=0.0098	tC^S15  478 nm f=0.098 361 nm f=0.082 352 nm f=0.11
tC^S16  457 nm f=0.066 360 nm f=0.0038 342 nm f=0.0011	tC^S17  416 nm f=0.038 364 nm f=0.12 351 nm f=0.0062	tC^S18  458 nm f=0.13 375 nm f=0.13 344 nm f=0.0033	tC^S19  462 nm f=0.077 371 nm f=0.018 341 nm f=0.0008	tC^S20  431 nm f=0.038 366 nm f=0.029 357 nm f=0.0038

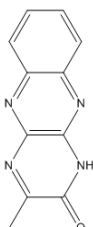
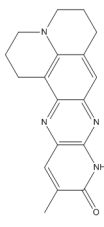
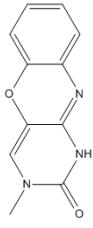
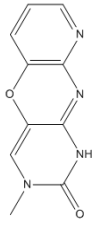
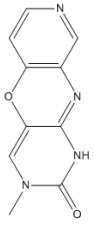
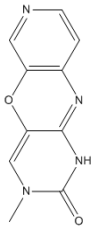
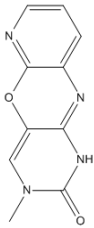
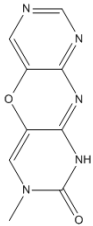
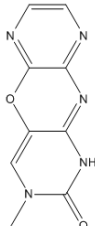
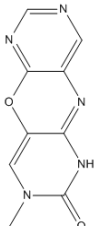
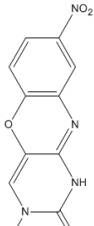
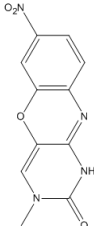
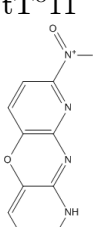
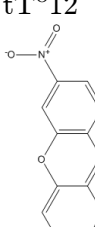
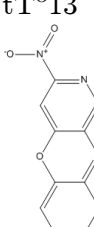
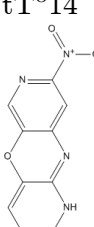
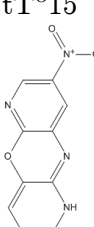
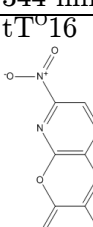
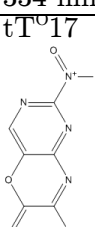
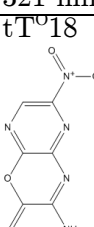
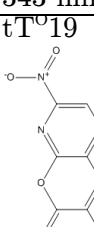
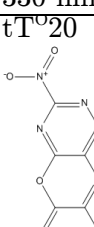
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qC^Oa1  409 nm f=0.060 351 nm f=0.22 312 nm f=0.048	qC^Ob1  360 nm f=0.35 333 nm f=0.026 311 nm f=0.22	qC^Oc1  406 nm f=0.14 348 nm f=0.091 318 nm f=0.094	qC^Sa1  404 nm f=0.049 344 nm f=0.16 319 nm f=0.025	qC^Sb1  362 nm f=0.17 346 nm f=0.0097 320 nm f=0.29
qC^Sc1  407 nm f=0.081 349 nm f=0.062 322 nm f=0.043	qC^h  420 nm f=0.31 349 nm f=0.04 312 nm f=0.04	qC^h (-O)  443 nm f=0.22 367 nm f=0.042 327 nm f=0.17	qC^h imide  450 nm f=0.58 355 nm f=0.01 342 nm f=0.05	tC^Op1  457 nm f=0.001 367 nm f=0.34 366 nm f=0.002
Coumarine  439 nm f=0.60 346 nm f=0.29 336 nm f=0.24	Ether  426 nm f=0.45 351 nm f=0.033 327 nm f=0.37	Amine  394 nm f=0.84 349 nm f=0.054 333 nm f=0.32	tCO-st2  414 nm f=0.81 346 nm f=0.030 331 nm f=0.64	tCO-st3  420 nm f=0.72 343 nm f=0.053 332 nm f=0.56

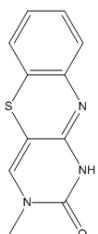
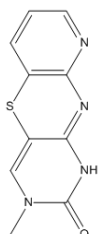
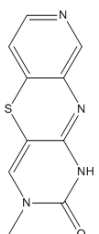
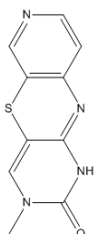
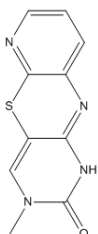
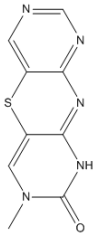
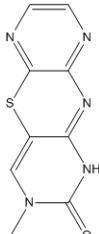
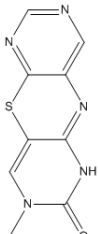
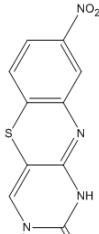
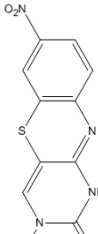
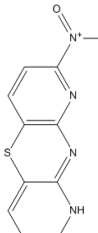
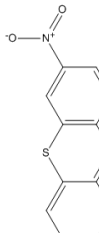
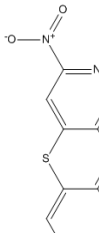
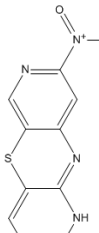
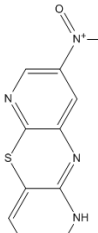
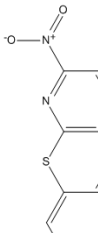
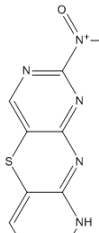
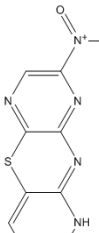
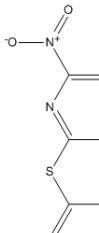
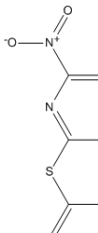
THYMIN ANALOGUES

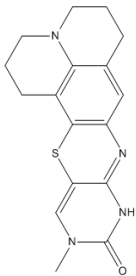
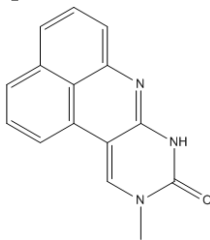
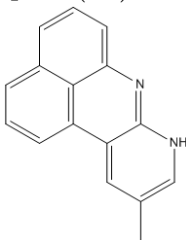
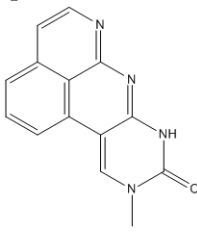
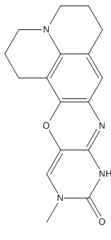
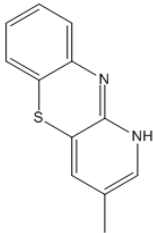
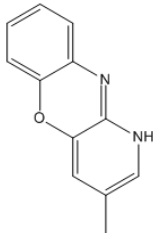
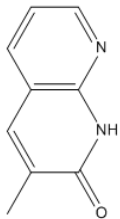
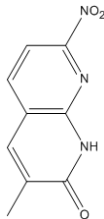
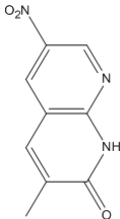
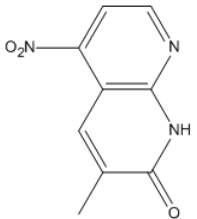
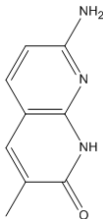
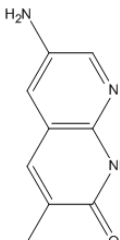
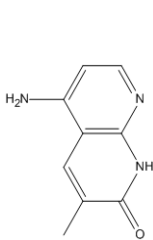
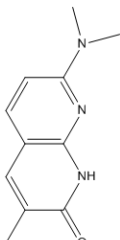
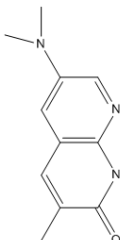
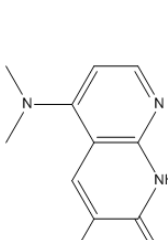
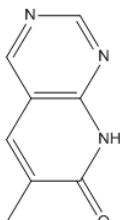
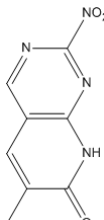
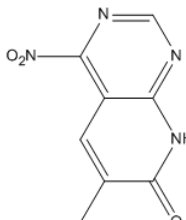
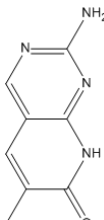
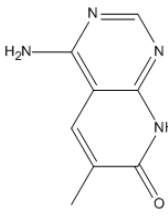


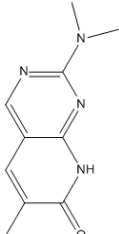
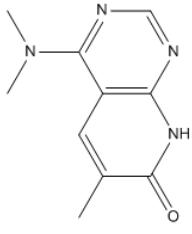
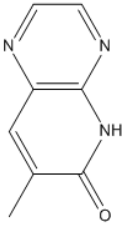
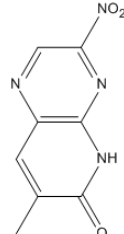
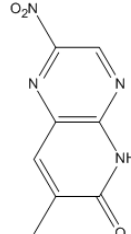
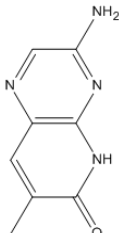
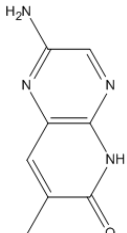
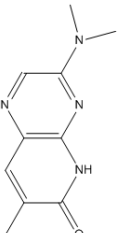
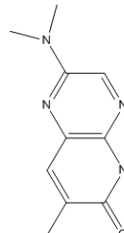
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tT^C6 335 nm f=0.56 332 nm f=0.0007 310 nm f=0.021	tT^C7 376 nm f=0.0011 355 nm f=0.60 327 nm f=0.058	tT^C8 366 nm f=0.0008 352 nm f=0.32 321 nm f=0.27	tT^C9 392 nm f=0.040 356 nm f=0.42 341 nm f=0.00	tT^C10 363 nm f=0.096 353 nm f=0.11 335 nm f=0.00
tT^C11 374 nm f=0.25 367 nm f=0.00 338 nm f=0.00	tT^C12 364 nm f=0.26 348 nm f=0.00 334 nm f=0.00	tT^C13 354 nm f=0.14 349 nm f=0.00 324 nm f=0.0001	tT^C14 359 nm f=0.00 349 nm f=0.19 341 nm f=0.25	tT^C15 387 nm f=0.20 374 nm f=0.00 350 nm f=0.25
tT^C16 360 nm f=0.36 355 nm f=0.0081 337 nm f=0.012	tT^C17 374 nm f=0.050 345 nm f=0.35 332 nm f=0.0078	tT^C18 418 nm f=0.0002 384 nm f=0.35 355 nm f=0.00	tT^C19 405 nm f=0.0003 370 nm f=0.40 348 nm f=0.00	tT^C20 392 nm f=0.014 355 nm f=0.25 346 nm f=0.0095

<p>tT^C21</p>  <p>358 nm f=0.032 357 nm f=0.0002 326 nm f=0.38</p>	<p>tT^C22</p>  <p><u>Gas:</u> 460 nm f=0.080 342 nm f=0.27 303 nm f=0.00</p>			
<p>tT^N1</p>  <p>373 nm f=0.12 348 nm f=0.54 344 nm f=0.0014</p>	<p>tT^N2</p>  <p>375 nm f=0.0002 360 nm f=0.59 308 nm f=0.00</p>	<p>tT^N3</p>  <p>379 nm f=0.20 365 nm f=0.0004 329 nm f=0.43</p>	<p>tT^N4</p>  <p>358 nm f=0.0006 350 nm f=0.39 343 nm f=0.24</p>	<p>tT^N5</p>  <p>378 nm f=0.0002 364 nm f=0.58 313 nm f=0.00</p>
<p>tT^N6</p>  <p>399 nm f=0.00 350 nm f=0.68 320 nm f=0.00</p>	<p>tT^N7</p>  <p>426 nm f=0.0001 370 nm f=0.68 322 nm f=0.00</p>	<p>tT^N8</p>  <p>408 nm f=0.00 369 nm f=0.45 324 nm f=0.0001</p>	<p>tT^N9</p>  <p>390 nm f=0.12 369 nm f=0.0007 351 nm f=0.37</p>	<p>tT^N10</p>  <p>364 nm f=0.30 358 nm f=0.0009 351 nm f=0.042</p>
<p>tT^N11</p>  <p>410 nm f=0.0001 375 nm f=0.39 353 nm f=0.0001</p>	<p>tT^N12</p>  <p>404 nm f=0.0001 363 nm f=0.48 330 nm f=0.00</p>	<p>tT^N13</p>  <p>378 nm f=0.0003 365 nm f=0.21 349 nm f=0.0001</p>	<p>tT^N14</p>  <p>383 nm f=0.0002 353 nm f=0.31 351 nm f=0.0003</p>	<p>tT^N15</p>  <p>420 nm f=0.0001 385 nm f=0.33 347 nm f=0.00</p>
<p>tT^N16</p>  <p>401 nm f=0.0001 362 nm f=0.50 350 nm f=0.0002</p>	<p>tT^N17</p>  <p>424 nm f=0.0064 357 nm f=0.38 343 nm f=0.020</p>	<p>tT^N18</p>  <p>470 nm f=0.00 383 nm f=0.47 362 nm f=0.00</p>	<p>tT^N19</p>  <p>458 nm f=0.00 369 nm f=0.58 357 nm f=0.00</p>	<p>tT^N20</p>  <p>432 nm f=0.0051 368 nm f=0.30 348 nm f=0.030</p>

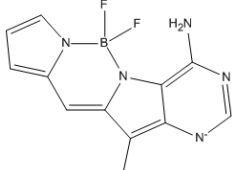
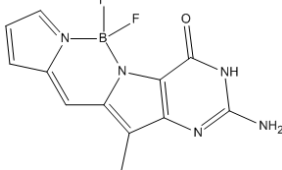
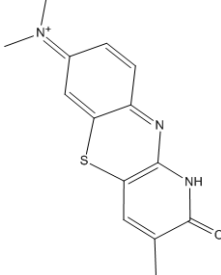
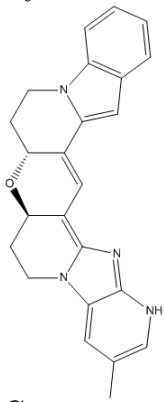
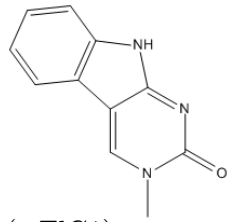
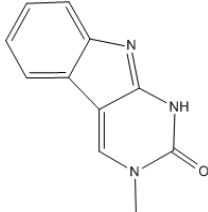
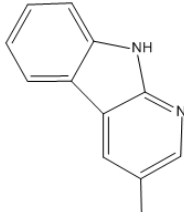
<p>tT^N21</p>  <p>396 nm f=0.00 371 nm f=0.058 341 nm f=0.0009</p>	<p>tT^N22</p>  <p>516 nm f=0.11 352 nm f=0.23 349 nm f=0.082</p>			
<p>tT^O1</p>  <p>374 nm f=0.32 306 nm f=0.078 293 nm f=0.0045</p>	<p>tT^O2</p>  <p>380 nm f=0.34 308 nm f=0.12 301 nm f=0.040</p>	<p>tT^O3</p>  <p>367 nm f=0.247 310 nm f=0.218 289 nm f=0.0011</p>	<p>tT^O4</p>  <p>382 nm f=0.24 300 nm f=0.15 288 nm f=0.0055</p>	<p>tT^O5</p>  <p>371 nm f=0.36 313 nm f=0.14 300 nm f=0.018</p>
<p>tT^O6</p>  <p>391 nm f=0.25 302 nm f=0.15 295 nm f=0.054</p>	<p>tT^O7</p>  <p>381 nm f=0.43 331 nm f=0.051 296 nm f=0.076</p>	<p>tT^O8</p>  <p>368 nm f=0.24 322 nm f=0.28 294 nm f=0.021</p>	<p>tT^O9</p>  <p>435 nm f=0.039 357 nm f=0.38 331 nm f=0.00</p>	<p>tT^O10</p>  <p>454 nm f=0.23 336 nm f=0.00 333 nm f=0.15</p>
<p>tT^O11</p>  <p>407 nm f=0.049 365 nm f=0.45 344 nm f=0.00</p>	<p>tT^O12</p>  <p>455 nm f=0.24 335 nm f=0.00 334 nm f=0.00</p>	<p>tT^O13</p>  <p>430 nm f=0.20 349 nm f=0.00 321 nm f=0.15</p>	<p>tT^O14</p>  <p>412 nm f=0.0045 352 nm f=0.35 343 nm f=0.00</p>	<p>tT^O15</p>  <p>441 nm f=0.040 356 nm f=0.46 330 nm f=0.00</p>
<p>tT^O16</p>  <p>436 nm f=0.28 349 nm f=0.00 327 nm f=0.082</p>	<p>tT^O17</p>  <p>393 nm f=0.052 358 nm f=0.29 345 nm f=0.045</p>	<p>tT^O18</p>  <p>407 nm f=0.050 368 nm f=0.49 342 nm f=0.00</p>	<p>tT^O19</p>  <p>433 nm f=0.32 354 nm f=0.00 341 nm f=0.00</p>	<p>tT^O20</p>  <p>414 nm f=0.23 363 nm f=0.0007 319 nm f=0.0099</p>

tT^s1  408 nm f=0.20 329 nm f=0.081 313 nm f=0.020	tT^s2  416 nm f=0.20 333 nm f=0.092 326 nm f=0.11	tT^s3  407 nm f=0.13 331 nm f=0.22 313 nm f=0.018	tT^s4  424 nm f=0.14 326 nm f=0.099 311 nm f=0.019	tT^s5  406 nm f=0.21 337 nm f=0.17 322 nm f=0.042
tT^s6  437 nm f=0.14 330 nm f=0.067 323 nm f=0.14	tT^s7  416 nm f=0.26 366 nm f=0.10 318 nm f=0.092	tT^s8  410 nm f=0.11 346 nm f=0.29 316 nm f=0.042	tT^s9  472 nm f=0.038 383 nm f=0.28 333 nm f=0.00	tT^s10  499 nm f=0.15 364 nm f=0.066 336 nm f=0.00
tT^s11  442 nm f=0.034 389 nm f=0.34 346 nm f=0.0003	tT^s12  491 nm f=0.16 355 nm f=0.044 342 nm f=0.0011	tT^s13  473 nm f=0.13 351 nm f=0.0001 350 nm f=0.049	tT^s14  449 nm f=0.012 372 nm f=0.23 345 nm f=0.0002	tT^s15  483 nm f=0.041 384 nm f=0.34 331 nm f=0.00
tT^s16  480 nm f=0.20 362 nm f=0.0089 350 nm f=0.00	tT^s17  432 nm f=0.041 373 nm f=0.25 350 nm f=0.0012	tT^s18  450 nm f=0.040 398 nm f=0.39 350 nm f=0.0003	tT^s19  482 nm f=0.22 364 nm f=0.00 359 nm f=0.0023	tT^s20  456 nm f=0.15 370 nm f=0.0019 356 nm f=0.012

tT^s22  430 nm f=0.31 359 nm f=0.0077 342 nm f=0.030	qT h  452 nm f=0.38 349 nm f=0.01 319 nm f=0.02	qT h (-O)  524 nm f=0.28 383 nm f=0.04 339 nm f=0.14	qT h2  430 nm f=0.39 334 nm f=0.026 312 nm f=0.032	tT^o22  407 nm f=0.39 332 nm f=0.017 327 nm f=0.034
tTS (-O)  423 nm f=0.26 402 nm f=0.032 335 nm f=0.11	tTO (-O)  390 nm f=0.38 369 nm f=0.033 317 nm f=0.084			
bT1  310 nm f=0.36 270 nm f=0.00 263 nm f=0.01	bT2  350 nm f=0.23 315 nm f=0.00 308 nm f=0.01	bT3  333 nm f=0.20 319 nm f=0.00 303 nm f=0.00	bT4  393 nm f=0.12 341 nm f=0.003 328 nm f=0.01	bT5  327 nm f=0.54 287 nm f=0.029 260 nm f=0.00
bT6  371 nm f=0.18 281 nm f=0.002 275 nm f=0.099	bT7  320 nm f=0.14 304 nm f=0.26 265 nm f=0.00	bT8  341 nm f=0.58 294 nm f=0.03 262 nm f=0.00	bT9  386 nm f=0.14 287 nm f=0.0077 281 nm f=0.13	bT10  342 nm f=0.16 311 nm f=0.23 270 nm f=0.003
bT11  299 nm f=0.39 288 nm f=0.0014 274 nm f=0.00	bT12  302 nm f=0.00 296 nm f=0.00 285 nm f=0.00	bT13  333 nm f=0.10 312 nm f=0.00 304 nm f=0.00	bT14  321 nm f=0.45 287 nm f=0.12 275 nm f=0.002	bT15  316 nm f=0.34 280 nm f=0.043 269 nm f=0.00

bT16  337 nm $f=0.45$ 297 nm $f=0.16$ 285 nm $f=0.002$	bT17  342 nm $f=0.25$ 293 nm $f=0.13$ 281 nm $f=0.0097$	bT18  330 nm $f=0.42$ 318 nm $f=0.003$ 286 nm $f=0.00$	bT19  364 nm $f=0.28$ 343 nm $f=0.003$ 334 nm $f=0.001$	bT20  336 nm $f=0.38$ 333 nm $f=0.0005$ 328 nm $f=0.0007$
bT21  348 nm $f=0.52$ 293 nm $f=0.078$ 289 nm $f=0.0034$	bT22  379 nm $f=0.31$ 304 nm $f=0.003$ 282 nm $f=0.00$	bT23  366 nm $f=0.55$ 301 nm $f=0.098$ 294 nm $f=0.0028$	bT24  390 nm $f=0.27$ 307 nm $f=0.034$ 291 nm $f=0.14$	

STRUCTURES BASED ON KNOWN DYES:

BodipyBase BOD-A  645 nm $f=0.023$ 475 nm $f=0.0003$ 414 nm $f=0.59$	BodipyBase BOD-G  571 nm $f=0.071$ 412 nm $f=0.55$ 375 nm $f=0.0001$	MethyleneBase MB-T  632 nm $f=0.41$ 412 nm $f=0.30$ 381 nm $f=0.00$	CyBase  Gas: 489 nm $f=1.19$ 386 nm $f=0.32$ 375 nm $f=0.01$	CarbazoleBase CB-C  (=FlC1) 335 nm $f=0.077$ 302 nm $f=0.14$ 262 nm $f=0.72$
CB-T  (=FIT1) 364 nm $f=0.01$ 320 nm $f=0.33$ 254 nm $f=0.66$	CB-C(-O)  (=FIC(-O)1) 327 nm $f=0.047$ 293 nm $f=0.30$ 248 nm $f=0.003$			