## Synthesis, Photophysics and Solvatochromic Studies of an Aggregated-Induced-Emission Luminogen Useful in Bioimaging

Laura Espinar-Barranco <sup>1</sup>, Marta Meazza <sup>2</sup>, Azahara Linares-Perez <sup>3</sup>, Ramon Rios <sup>2</sup>, Jose Manuel Paredes<sup>1\*</sup> and Luis Crovetto<sup>1\*</sup>

- <sup>1</sup> Department of Physical Chemistry, University of Granada, Cartuja Campus, 18071 Granada (Spain)
- <sup>2</sup> School of Chemistry. University of Southampton. Highfield Campus, SO17 1BJ Southampton, UK
- <sup>3</sup> Department of Biochemistry and Molecular Biology II, Faculty of Pharmacy, University of Granada, Cartuja Campus, 18071, Granada, Spain
- \* Correspondence: jmparedes@ugr.es (J.M.P.); luiscrovetto@ugr.es (L.C.)

Received: date; Accepted: date; Published: date

## Index

| Scheme S1.                |  |
|---------------------------|--|
| Figure S1. Lippert-Mataga |  |
| Figure S2.                |  |
| Table S1.                 |  |
| Figure S3.                |  |
| Figure S4.                |  |
| Figure S5.                |  |
| Figure S6.                |  |



phenyl-2-(trifluoromethyl)-2,5-dihydrofuran-3-yl)allylidene)-5,5-dimethylcyclohex-1-en-1yl)vinyl)phenyl)(ethyl)amino)ethyl methacrylate.





| Table S1: Estimated coefficients ± standard errors and correlation coefficient (r) for the multilinear          |              |            |            |              |             |        |  |  |
|---|--------------|------------|------------|--------------|-------------|--------|--|--|
| regression analyses of $	ilde{ u}_{abs}$ and $	ilde{ u}_{em}$ The estimates are expressed in cm <sup>-1</sup> . |              |            |            |              |             |        |  |  |
|   | Ao           | b (SA)     | с (SB)     | d (SP)       | e (SdP)     | r      |  |  |
| $\tilde{v}_{abs}$   | 19501 ± 970  | -401 ±180  | -606 ± 271 | -3125 ± 1157 | -1518 ±240  | 0.9420 |  |  |
|   | 18803 ± 1071 |            | -357 ± 288 | -2213 ± 1262 | -1724 ±258  | 0.9119 |  |  |
|   | 17819 ±717   | -235 ± 191 |            | -1266 ± 941  | -1367 ± 269 | 0.9116 |  |  |
|   | 16919 ± 207  | -229 ± 211 | -81 ±237   |              | -1274 ± 278 | 0.8974 |  |  |
|   | 16484 ± 1804 | -840 ± 354 | -123 ± 555 | -365 ± 2288  |             | 0.6602 |  |  |
|   | 16945 ± 153  |            |            |              | -1451 ± 211 | 0.8856 |  |  |
|   | 15013 ± 1312 |            |            | 1384 ± 1898  |             | 0.1983 |  |  |
|   | 15840 ± 229  |            | 297 ± 460  |              |             | 0.1762 |  |  |
|   | 16169 ±112   | -793 ± 251 |            |              |             | 0.6583 |  |  |
| $\tilde{v}_{em}$  | 16658 ± 432  | -89 ± 80   | -325 ± 121 | -1093 ± 515  | -1112 ± 107 | 0.9736 |  |  |
|   | 16504 ± 413  |            | -269 ± 111 | -891 ± 487   | -1158 ± 99  | 0.9703 |  |  |
|   | 15758 ± 342  | 0 ± 91     |            | -98 ± 449    | -1031 ± 128 | 0.9540 |  |  |
|   | 15755 ± 84   | -29 ± 86   | -141 ± 96  |              | -1027 ± 113 | 0.9615 |  |  |
|   | 14448 ± 1236 | -410 ± 243 | 30 ± 380   | 930 ± 1567   |             | 0.6175 |  |  |
|   | 15685 ± 65   |            |            |              | -1022 ± 89  | 0.9538 |  |  |
|   | 13901 ± 821  |            |            | 1590 ± 1188  |             | 0.3480 |  |  |
|   | 14955 ± 152  |            | 95 ± 305   |              |             | 0.0858 |  |  |
|   | 15114 ± 79   | -466 ± 176 |            |              |             | 0.5915 |  |  |







