

# Microwave Assisted Base Dependent Regioselective Synthesis of Partially Reduced Chromenes, Isochromenes and Phenanthrenes

Pratik Yadav, Surjeet Singh, Satya Narayan Sahu, Firasat Hussain, Ramendra Pratap\*

## Supporting Information

### Contents

|                                                                                                                                                            |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| <sup>1</sup> H and <sup>13</sup> C spectra of (Z)-2-(2-phenyl-5,6-dihydro-4H-benzo[f]isochromen-4-ylidene)acetonitrile ( <b>7a</b> )                       | 2  |
| <sup>1</sup> H and <sup>13</sup> C spectra of (Z)-2-(2-(4-methoxyphenyl)-5,6-dihydro-4H-benzo[f]isochromen-4-ylidene)acetonitrile ( <b>7b</b> )            | 3  |
| <sup>1</sup> H and <sup>13</sup> C spectra of (Z)-2-(2-(4-fluorophenyl)-5,6-dihydro-4H-benzo[f]isochromen-4-ylidene)acetonitrile ( <b>7c</b> )             | 4  |
| <sup>1</sup> H and <sup>13</sup> C spectra of (Z)-2-(2-(4-chlorophenyl)-5,6-dihydro-4H-benzo[f]isochromen-4-ylidene)acetonitrile ( <b>7d</b> )             | 5  |
| <sup>1</sup> H and <sup>13</sup> C spectra of (Z)-2-(2-(4-bromophenyl)-5,6-dihydro-4H-benzo[f]isochromen-4-ylidene)acetonitrile ( <b>7e</b> )              | 6  |
| <sup>1</sup> H and <sup>13</sup> C spectra of (Z)-2-(2-(4-bromophenyl)-8-methoxy-5,6-dihydro-4H-benzo [f]isochromen-4-ylidene)acetonitrile ( <b>7f</b> )   | 7  |
| <sup>1</sup> H and <sup>13</sup> C spectra of (Z)-2-(8-methoxy-2-(4-methoxyphenyl)-5,6-dihydro-4H-benzo [f]isochromen-4-ylidene)acetonitrile ( <b>7g</b> ) | 8  |
| <sup>1</sup> H and <sup>13</sup> C spectra of (Z)-2-(2-(thiophen-2-yl)-5,6-dihydro-4H-benzo[f]isochromen-4-ylidene)acetonitrile ( <b>9a</b> )              | 9  |
| <sup>1</sup> H and <sup>13</sup> C spectra of (Z)-2-(8-methoxy-2-(thiophen-2-yl)-5,6-dihydro-4H-benzo[f]isochromen-4-ylidene)acetonitrile ( <b>9b</b> )    | 10 |
| <sup>1</sup> H and <sup>13</sup> C spectra of (Z)-2-(3,4,7,8-tetrahydro-1H-naphtho[2,1-c]chromen-6(2H)-ylidene)acetonitrile ( <b>11a</b> )                 | 11 |
| <sup>1</sup> H and <sup>13</sup> C spectra of (Z)-2-(10-methoxy-3,4,7,8-tetrahydro-1H-naphtho[2,1-c]chromen-6(2H)-ylidene)acetonitrile ( <b>11b</b> )      | 12 |
| <sup>1</sup> H and <sup>13</sup> C spectra of 3-(4-bromophenyl)-7-methoxy-1-(piperidin-1-yl)phenanthrene-2-carbonitrile ( <b>6c</b> )                      | 13 |























