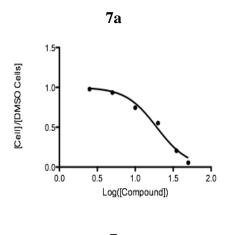
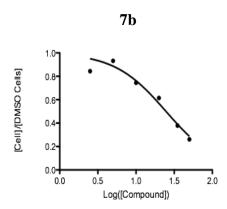
# Design and synthesis of $\beta$ -amino alcohol based $\beta$ -lactam-isatin chimeras and preliminary analysis of *in vitro* activity against the protozoal pathogen *Trichomonas* vaginalis

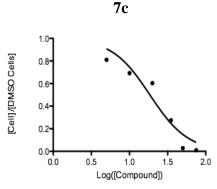
Nisha, Vishu Mehra, Melissa Hopper, Neal Patel, Dominique Hall, Lisa A. Wrischnik, Kirkwood M. Land, Vipan Kumar.

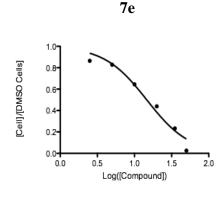
#### **Supplementary Information:**

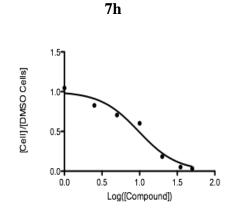
Concentration-response curves for 7a, 7b, 7c, 7e, 7h, 7k

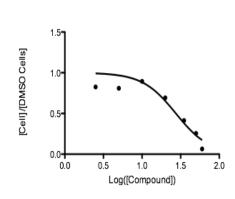












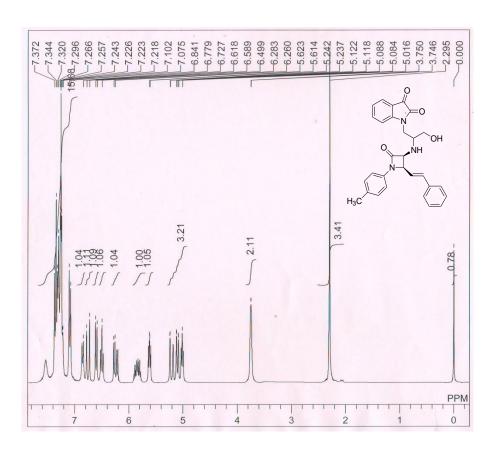
7k

<sup>&</sup>lt;sup>a</sup> Department of Chemistry, Guru Nanak Dev University, Amritsar-143005, Punjab, India

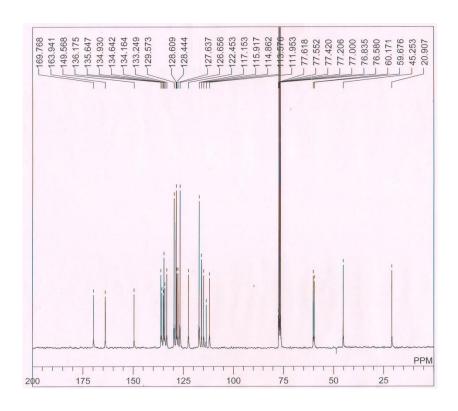
<sup>&</sup>lt;sup>b</sup> Department of Biological Sciences, University of the Pacific, Stockton, CA 95211, USA

## <sup>1</sup>H and 13C NMR spectra of representative compounds:

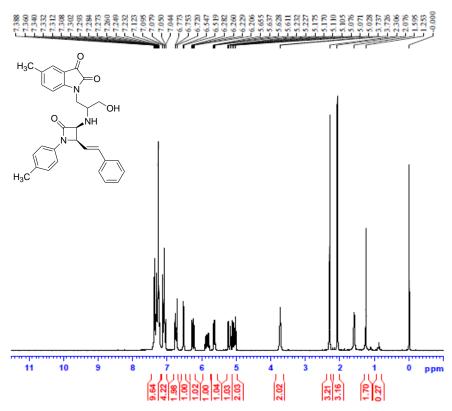
<sup>1</sup>H NMR spectrum of **7a**:



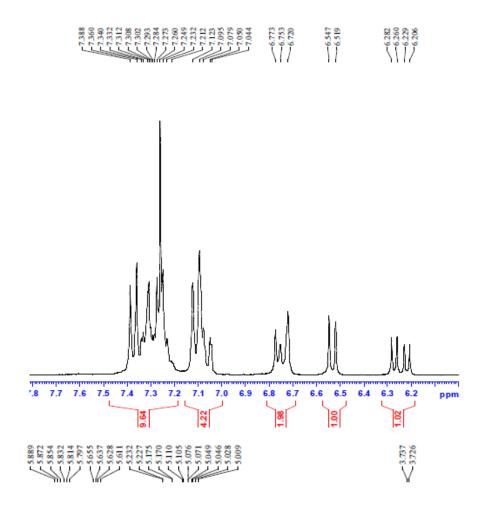
<sup>13</sup>C NMR spectrum of **7a**:

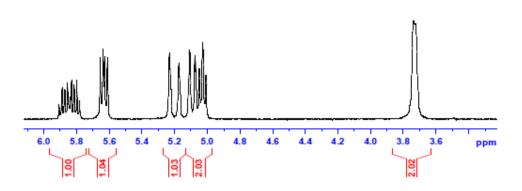


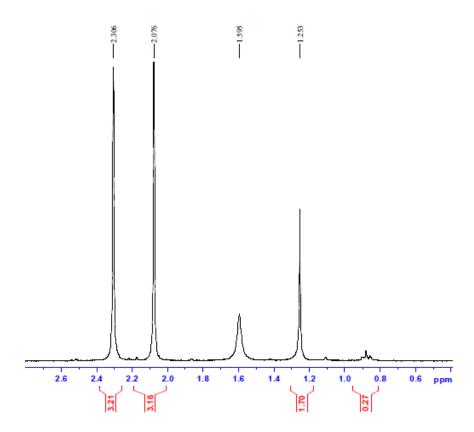
## <sup>1</sup>H NMR spectrum of **7**d:



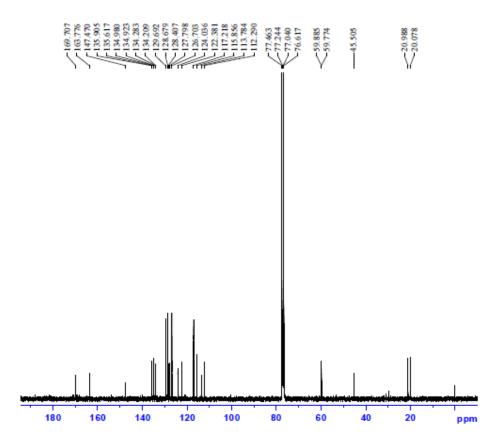
Expantions of <sup>1</sup>H spectrum of **7d:** 





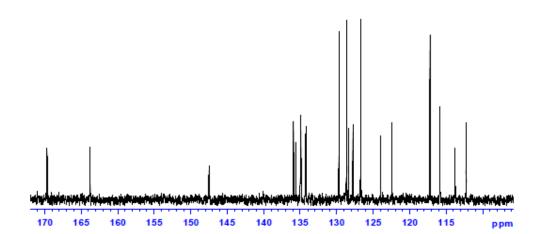


## <sup>13</sup>C NMR spectrum of **7d**:

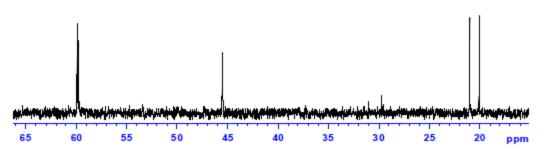


# Expantions of <sup>13</sup>C spectrum of **7d:**

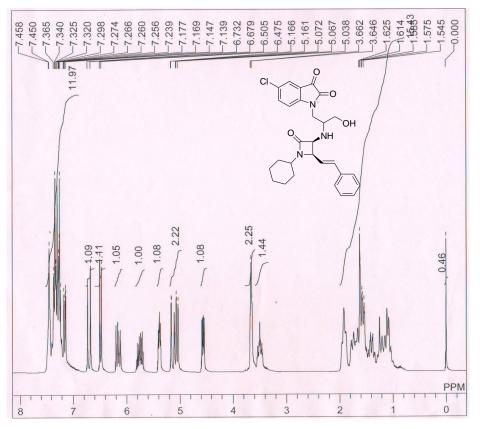
169.707	163.776	135.905 135.905 134.905 134.926 134.205 125.692 128.673 127.798 127.79
		>>> \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\



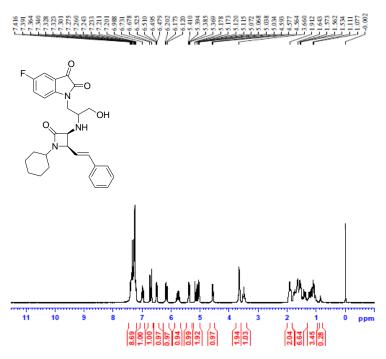




<sup>1</sup>H NMR spectrum of **7**i:

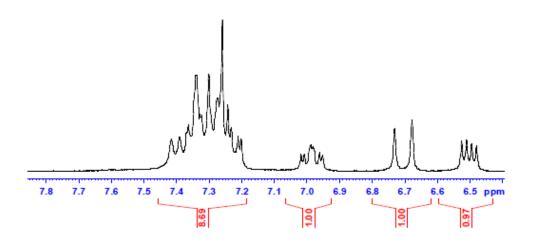


<sup>1</sup>H NMR spectrum of **7**l:

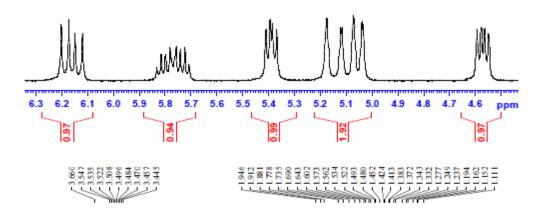


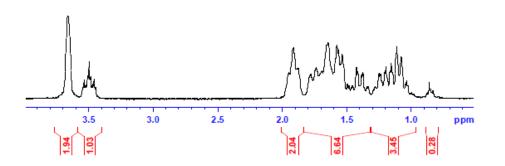
## Expantions of <sup>1</sup>H spectrum of **71**:





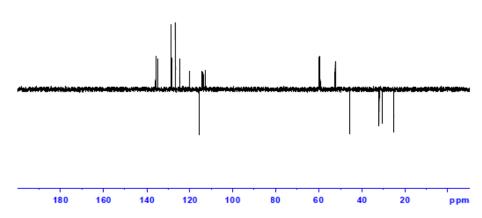






#### DEPT spectrum of **71**:





#### Expantions of DEPT spectrum of 71:



