

## Supporting Information

### Effect of non-covalent interaction on the diastereoselective self-assembly of Cu(II) complexes containing a racemic Schiff base in a chiral self-discriminating process

Himanshu Sekhar Jena\*†,

\*Department of Chemistry, Indian Institute of Technology, Guwahati, Guwahati, Assam, India 781039.  
 Email: [hsjena@iiserb.ac.in](mailto:hsjena@iiserb.ac.in), Tel.: +91 9425807692, Fax: +91 755 4092392

#### Present Addresses

†Post-Doctoral Fellow, Department of Chemistry, Indian Institute of Science Education and Research Bhopal, Indore-Bhopal by pass Road, Madhya Pradesh, India 462066. Email: [hsjena@iiserb.ac.in](mailto:hsjena@iiserb.ac.in), Tel: +91 9425807692, Fax: +91 755 4092392.

**Table S1.** Selected bond distances (Å) and bond angles (°) found in compounds **1-5**.

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Cu(1) - N(1)	1.976(1)	1.972(4)	2.005(4)	2.009(2)	2.022(1)
Cu(1) - N(2)	1.936(1)	1.935(4)	1.952(3)	1.939(2)	1.943(1)
Cu(1) - N(3)	-	-	1.992(3)	1.944(2)	1.937(1)
Cu(1) - N(3A)	-	-	2.591(3)	-	-
Cu(1) - O(1)	1.901(1)	1.896(3)	1.891(3)	1.926(2)	1.927(1)
Cu(1) - O(1A)	2.480(1)	-	-	2.413(1)	2.693(1)
Cu(1) - O(2)	1.994(1)	1.998(3)	-	-	-
Cu(1) - O(3)	-	2.463(8)	-	-	-
Cu(1) - Cu(1A)	3.172(1)	-	3.434(1)	3.150(1)	3.343(1)
N(1) - Cu(1) - N(2)	82.66(5)	82.9(2)	82.1(1)	82.01(7)	81.32(5)
N(1) - Cu(1) - N(3)	-	-	88.4(1)	94.02(8)	93.78(6)
N(1) - Cu(1) - N(3A)	-	-	94.1(1)	-	-
N(1) - Cu(1) - O(1)	175.18(5)	173.2(2)	173.3(1)	174.19(7)	173.73(5)
N(1) - Cu(1) - O(1A)	89.60(5)	-	-	93.62(6)	92.04(4)
N(1) - Cu(1) - O(2)	95.07(5)	93.6(2)	-	-	-
N(1) - Cu(1) - O(3)	-	86.1(2)	-	-	-
N(2) - Cu(1) - O(1)	93.24(5)	94.2(2)	92.7(1)	92.19(6)	92.44(5)
N(2) - Cu(1) - O(1A)	94.48(5)	-	-	98.52(6)	92.87(4)
N(2) - Cu(1) - O(2)	172.58(5)	173.8(1)	-	-	-
N(2) - Cu(1) - O(3)	-	103.5(2)	-	-	-
N(2) - Cu(1) - N(3)	-	-	106.0(1)	167.30(8)	170.96(6)
N(2) - Cu(1) - N(3A)	-	-	169.4(1)	-	-
N(3) - Cu(1) - N(3A)	-	-	83.6(1)	-	-
O(1) - Cu(1) - N(3)	-	-	97.1(1)	91.58(7)	92.33(6)
O(1) - Cu(1) - N(3A)	-	-	90.4(1)	-	-
O(1) - Cu(1) - O(2)	89.32(5)	88.7(1)	-	-	-
O(1) - Cu(1) - O(3)	-	100.6(2)	-	-	-
O(1) - Cu(1) - O(1A)	88.20(4)	-	-	87.57(5)	-
O(2) - Cu(1) - O(1A)	92.56(4)	-	-	-	-
O(2) - Cu(1) - O(3)	-	81.3(2)	-	-	-
O(1) - Cu(1) - O(1A)	88.20(4)	-	-	87.57(5)	88.83(4)
Cu(1) - O(1) - Cu(1A)	91.80(4)	-	-	92.43(5)	91.17(4)
N(3) - Cu(1) - N(3A)	-	-	83.6(1)	-	-
N(3) - Cu(1) - O(1)	-	-	93.75(7)	-	94.91(5)
Cu(1) - N(3) - Cu(1A)	-	-	83.6(1)	-	-