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(71)**Name of Applicant :**
1)Ms. Ashwini Suresh Patil
Address of Applicant :Assistant Professor, Annasaheb Dange College of B. Pharmacy, Ashta, Malli Nagar, Walwa, Sangli, Maharashtra, Pin Code: 416313 Walwa ---------- ----------
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Ms. Ashwini Suresh Patil
Address of Applicant :Assistant Professor, Annasaheb Dange College of B. Pharmacy, Malli Nagar, Walwa, Sangli, Maharashtra, Pin Code: 416313 Walwa ---------- ----------
2)Dr. Shrinivas Krishna Mohite
Address of Applicant :Vice -Principal, Rajarambapu College of Pharmacy, Kasegaon, Near Mahadev Temple, Mahadevwadi, Walwa, Sangli, Maharashtra, Pin Code: 402116 Walwa ---------- ----------
3)Dr. Mahesh Govind Saralaya
Address of Applicant :Principal, Annasaheb Dange College of Pharmacy,Ashta, 4B,Wing A, Siddivinayakpurnam Society, Datta Nagar, Near 80 Ft Road ,Vishrambhag, Sangli, Maharastra, Pin Code: 416415. Vishrambhag ---------- ----------
4)Ms. Shailaja Prakash Desai
Address of Applicant :Assistant Professor, Annasaheb Dange College of B.Pharmacy, Ashta, Yallama Chowk, Islampur, Walwa, Sangli, Maharashtra, Pin Code: 415409. Walwa ---------- ----------
5)Ms. Nisha Mohan Jagtap
Address of Applicant :Assistant Professor, Annasaheb Dange College of B. Pharmacy,Ashta, Near Jio Tower, Yewalewadi, Walwa, Sangli, Maharashtra, Pin Code: 415404. Walwa ---------- ----------
6)Mr. Harshad Popat Khade
Address of Applicant :Assistant Professor, Annasaheb Dange College of Pharmacy, Ashta, Near Parshwnath Jain Temple, Magachi Galli, Kavathe-Ekand, Tasgaon, Sangli, Maharashtra, Pin Code: 416307. Tasgaon ---------- ----------

(57) Abstract :
The present invention relates to the synthesis of series of 2,5- disubstituted- 1,3,4 oxadiazole synthesized by using 1-hydroxy 2 napthoic acid as a starting material An effective synthesis of different 2, 5- disubstituted- 1,3,4 oxadiazole derivatives by nucleophilic addition elimination reaction, nucleophilic substitution reaction and cyclization reaction. 1-hydroxy- 2- naphthoic acid with concentrated sulphuric acid and ethanol resulted the formation of carboxylate, and again refluxing in ethanol and hydrazine hydrate resulted the formation of carbohydrazide intermediate. when treated with cynogen bromide,1,4 diaxone and sodium bicarbonate and ethanol the formation of compound 1,3,4 oxadiazole, derivatives were synthesized by using different aromatic aldehyde. Results indicated that synthesized compunds 4a1 to 4a10 compounds exhibited good antimicrobial and anticancer activities in comparison to standard drug was used.

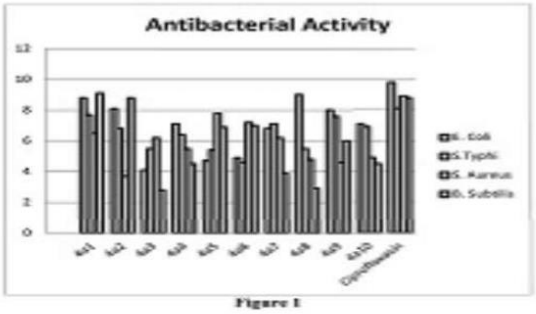

Figure 1

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