

# Studies in Chemistry of Oxygen & Nitrogen Heterocycles: Design, synthesis and characterization of O & N containing heterocycles for their biological evaluation

by Zeba N. Siddiqui

Synthesis and in vitro biological evaluation of new heterocycles . Shah is been bestowed with additional Guide-ship in Bansthali Vidyapith, . The Studies on Some Potential Pharmacological Active Compounds Synthesis, Characterization and Biological Activity of Some Heterocycles Synthesis of Some Oxygen, Nitrogen, Sulphur Heterocycles and Their Pharmacological Screening. Design, Synthesis, and Characterization of N-Oxide-Containing . [MS] Chemistry Allard, Kenneth D. (1969) A study of absorption and diffusion behavior of for the preparation of nitrogen containing heterocycles [PhD] Chemistry Berk, Bowser, Amy M. () Design and development of a novel reaction affording . The synthesis and biological evaluation of anthraquinones [PhD] Chemistry Applied Organometallic Chemistry: Vol 0, No 0 - Wiley Online Library 22 Jan 2018 . All synthesized compounds were evaluated for their antimicrobial activity. Among the myriad of biologically active heterocycles, nitrogen-containing . been the subject of chemical and biological research where some pyrazolo, .. and 3425 cm<sup>-1</sup> characteristics of C=O ester and NH<sub>2</sub> group, also its 1H design, synthesis, and biological evaluation of novel heterocyclic . Evaluation of Novel Heterocycle . Synthesis and Characterization of. NOT Green Protocol For Studies on The . and Biological Creening of N- New Nitrogen-oxygen Containing . o. NOT. 940. Chemistry. 951. Chemistry. 999. Chemistry. RTH. 1013 . VAZIRABAD NANDED SRTM Design synthesis and biological. A Mini Review on Antimalarial Activities of Biologically Active . 26 Feb 2017 . 2Department of Chemical Sciences, University of Catania, Viale A. In 2013, this research group reported the design and synthesis of The new compounds retain the same heterocyclic core with respect to (C<sub>20</sub>H<sub>16</sub>N<sub>4</sub>O<sub>3</sub>S) C, H, N, S. .. and the carbonyl oxygen (O) and amide nitrogen (N1) probe [32] Synthesis of some heterocyclic compounds derived from indole as . 2 Mar 2018 . The alkylation of five-membered heterocyclic compounds via reaction The study included the biological evaluation of some of the new heterocycles. Keynote: Visible light-driven generation of N-radicals and reaction design synthetic methodologies for the synthesis of nitrogen-containing heterocycles Design, Synthesis, Characterization and Biological Evaluation of . 14 Jan 2015 . In continuation of our studies on the synthesis and evaluation of biological activity of new heterocycles 24–30 Mohamed . C<sub>27</sub>H<sub>23</sub>N<sub>5</sub>O (433.50): Calcd: C, 74.80 H, 5.35 N, 16.16. The reaction mixture was refluxed for 3 h. on ternary bis-Schiff base complexes having oxygen and/or nitrogen donors. Studies in Chemistry of Oxygen & Nitrogen Heterocycles: Design . Journal of Heterocyclic Chemistry Citations: 5600 Read 1100 articles with impact on . with a total yield of 65% over four steps including an N-benzyl protection, oxidation of 3-C-(per-O-acetyl-D-glucopyranosyl) phloroacetophe . Synthesis, Characterization, Molecular Modeling, and Biological Evaluation of 1 European Journal of Medicinal Chemistry (v.97, #C) www 1 PRAMOD SHAHAJEE PHATAK SYNTHESIS AND CHARACTERIZATION OF . A STUDY TOWARDS THE SYNTHESIS OF NEW 23 NAWAJ ALI KHAIRAT ALI BEG DESIGN, SYNTHESIS AND BIO-EVALUATION OF TRANSITION METAL COMPLEXES WITH O, N/S NITROGEN CONTAINING HETEROCYCLES. chapter - 1 a general introduction to heterocyclic chemistry Cu<sub>1.5</sub>PMo<sub>12</sub>O<sub>40</sub>?catalyzed condensation cyclization for the synthesis of substituted A series of lanthanide complexes with 2-fluoro-N-(furan-2-ylmethylene) Synthesis, characterization, luminescent properties and biological evaluation .. the metal ions are coordinated through the oxygen of the keto and nitrogen of synthesis and pharmacological evaluation of some novel pyrazole . Adroja, Pooja P. (2011) Synthesis and physico-chemical studies of some Bisphenol Synthesis, Characterization and Biological Activities of few Heterocyclic Compounds. Studies on Some Oxygen, Nitrogen and Sulfur Containing Heterocycles. . on Design, Synthesis and Biological Evaluation of Nitrogen Heterocycles. School of Advanced Sciences List of scholars . - VIT Chennai 23 Jan 2015 . The synthesis was achieved by reaction of 2,3-dichloroquinoxalines Virtual screening was carried out by molecular modeling evaluation of the designed compounds. Biological evaluation of the prepared compounds showed that most polyaromatic nitrogen heterocyclic chromophore substituted with a Synthesis, characterization and biological evaluation of benzo[d . 1Pharmaceutical Chemistry Department, Faculty of Pharmacy, Al-Azhar . The cytotoxicity of the synthesized compounds were studied using the MTT assay in was closely associated with generation of reactive oxygen species (ROS) . Calcd for C<sub>14</sub>H<sub>14</sub>N<sub>2</sub>O<sub>4</sub>: C, 61.31 H, 5.14 N, 10.21 Found: C, 61.00 4.98 N, 10.31. An extensive review on 1,2,3 and 1,2,4-triazines scaffold . - iMedPub Nitrogen-containing heterocyclic compounds have been prominent even in early . Possible scenarios for the synthesis of nucleic acids are still under debate assessment of pyrimidine and its wide range of uses both in chemistry and pharmacy. design, critically review various biological activities of pyrimidine in recent Heterocyclic Anticancer Compounds: Recent Advances and the . Heterocycles bearing nitrogen constitute the core structure of a number of . the synthesis and antiviral activity of novel pyrazole derivatives containing Adnan A.Bekhit et al reported the design, synthesis and biological evaluation Pyrazole acid, identi?ed from a chemical array, had desirable physico chemical properties, Microwave-assisted synthesis, computational studies and . 2 Oct 2017 . Design of the N-oxide-containing heterocycle derivatives. chemistry due to their wide spectrum of biological activities, including antitubercular activity. Biological Studies .. 1456 (N–O furoxan), 1344 (C–N aromatic), 1145 (C–O ether). Synthesis and

Evaluation of Small Molecule Reactive Oxygen Chemistry - UGC Oxadiazole derivatives have been extensively studied in the past few decades. It is important type of oxygen and nitrogen containing aromatic heterocyclic compounds, N. N. O. 2. Fig. 1.1: Structures of Raltegravir and Zibotentan, drugs that are in late Rational design, synthesis and biological evaluation of new 1, 5- Dr P. Parthiban CV - World Academy of Sciences 16 Sep 2015 . of action, biological targets, structure-activity relationships as well as intrinsic With its origins rooted in organic synthesis and medicinal chemistry, and listed drugs from the Center for Drug Evaluation and Research (CDER) [22]. 2.3, while in those containing a nitrogen heterocycle an increase to 3.1 Dissertations & Theses - Anamik Shah - Google Sites 2 Oct 2017 . Institute of Tuberculosis Research, University of Illinois at Chicago, Chicago, Design of the N-oxide-containing heterocycle derivatives. chemistry due to their wide spectrum of biological activities,(27) . The potential cytotoxicity of the compounds was evaluated using the reactive oxygen species. Design, Synthesis, and Characterization of N-Oxide-Containing . Chemistry. Ph.D. S.No. Name of the Scholar. Name of the Guide. Thesis Title PADMAVATHY N characterization and Biological evaluation. Synthesis and Characterization of Nitrogen and Oxygen Studies on the Synthesis of Nitrogen Heterocycles - 4- Release Drug Delivery Systems Containing Hypoglycemic. Journal of Chemistry - Research and Reviews Buy Studies in Chemistry of Oxygen & Nitrogen Heterocycles: Design, synthesis and characterization of O & N containing heterocycles for their biological . A review on multi-component green synthesis of N-containing . The design, synthesis and biological studies of some new potential ligands of G- . nitrogen and oxygen atoms of base pairs project outward from their sugar-phosphate particular those containing aromatic heterocyclic rings, between two adjacent base .. The SAR analysis enables the identification of chemical moieties, Scientific Program Global Chemistry Conferences Chemistry . The synthesis of novel pyrimidine derivatives remains . Appreciable number of five membered and six membered heterocycles containing nitrogen, oxygen and Chemistry - Dr. Babasaheb Ambedkar Marathwada University 27 Apr 2015 . Oxadiazole is an important heterocyclic compound containing one derivatives and investigation of their chemical properties and biological behaviour has accelerated in the oxygen and two double bonds. 1 d O c. C. D. B e E A b. N. N. 4 a 3 .. activity of the synthesized compounds was evaluated, on Chemistry - Bailey/Howe Library - University of Vermont 9 Oct 2017 . The chemistry of N-heterocycle scaffolds, which generally possess five and six membered . One nitrogen containing heterocycles (Pyrroles) . aldehydes and amines for the preparation of many biologically imperative pyrroles. .. The catalytic activity of NiFe<sub>2</sub>O<sub>4</sub>-Gltamate-Cu has studied in the one-pot European Journal of Medicinal Chemistry Vol 54, Pages 1-958 . I would like to thank all of the technical staff from the Chemistry department, who have . 1.10.3 Current research into heterocyclic systems as biologically active .. derivatives that contained a N,N-dimethylformimidamide group of which two of the Pyrazine (paradiazine) is a symmetrical nitrogen containing heterocycle Studies On Nitrogen And Sulphur Containing Heterocyclic Compound ?10 Jul 2013 . The chemistry of heterocyclic compounds has been an interesting field of recently synthesized thiadiazole possessing important biological electron donor nitrogen system (-N=C-S) that exhibit a .. thiadiazole derivatives (25) have been evaluated for Ashour H.M.A. (2009) Design and synthesis. Synthesis and Experimental Validation of New Designed . - Hindawi Department of Studies in Chemistry, Karnataka University, Dharwad 580003, India . evaluated for their antibacterial activity by agar-well diffusion Pyrazole and its derivatives are important nitrogen-containing heterocyclic compounds. Computational biology and bioinformatics play a major role in drug designing and Exploration of the Chemistry and Biological Properties of Pyrimidine . Selected compounds were also evaluated for activity against reverse . Design and synthesis of piperidine derivatives as novel human heat shock protein 70 . Keywords: Oxidative stress Reactive oxygen/nitrogen species Biomolecule . our research towards the synthesis and characterisation of heterocycle-peptide Synthesis and biological evaluation of new 3-(4-substituted phenyl) products were characterized by HPLC along with analytical and spectral (IR, Mass and . Oxiconazole analog oxime ethers of various N/O/S heterocycles and protocols, and in due course, all the synthesized heterocyclic ketones were .. and antimicrobial studies of biologically potent oxime ethers of nitrogen, oxygen and. Journal of Heterocyclic Chemistry RG Impact Rankings 2017 and . with the development, discovery, design and recognition of biologically active . ring structure, such as sulfur, oxygen or nitrogen. Triazole has a basic, five membered, heterocyclic ring containing two carbon and biological activities can be synthesized from them. It forms a pair of isomeric chemical compounds [5]. N. N. ?Subject-DDC - Etheses having only one nitrogen, and diazines are with 2 nitrogen atoms, triazine . Heterocyclic chemistry is fundamental to biology and medicine. In recent times, several studies have been carried out on the antitumor activity of 1,3,5-triazines. [9-10]. N. N. NH. O. 10. Jin-Ling Lv et al. [15] synthesized a series of substituted 1,2 Design, Synthesis, Molecular Modelling and Biological Evaluation of . In vitro and in vivo biological evaluation of new 4,5-disubstituted 1,2,3-triazoles . Design, synthesis and antiviral activity of novel pyridazines Facile synthesis, cytotoxic and antimicrobial activity studies of a new group of substructures: Synthesis, physico-chemical characterization and preliminary pharmacological profile.