



Curriculum Vitae

Saleh K. Ihmaid

Associate Professor Medicinal Chemistry

Biography

I am Dr. Saleh Ihmaid, acting chairman of the clinical pharmacy department, Faculty of Pharmacy at the Jadara University, Jordan. My first degree BSc (Pharmacy) from Baluchistan University, Pakistan, in 1998. Completed my MSc degree in Bio-pharmaceutical from the Department of Medicine, University of New South Wales, Australia in 2003. Awarded a PhD in Organic/Medicinal Chemistry from the La-Trobe University, Australia, in 2011.

Before joining Jadara University, I worked in the College of Pharmacy at Taibah University for 10 years. From 2012 till 2022 Associate Professor of Organic/Medicinal Chemistry Faculty of Pharmacy, Taibah University, Kingdom of Saudi Arabia. Acting chairman of the Department of Pharmacognosy and Medicinal Chemistry, Faculty of Pharmacy, Taibah University, Saudi Arabia from 2014 till 2016. Assistant professor of medicinal chemistry, Faculty of Pharmacy and Medical Science, I served as an academic advisor for pharmacy students. As an academic advisor, and help the students to define and develop their personal and academic goals. I work with each student to identify his/her individual needs and refer each to the proper campus resource. Take extra time to advise students who change majors, or are in academic trouble, making sure that they are referred to the Undergraduate Advising Resource Center (UARC). Always maintain current knowledge of academic policies and any changes in pharmacy plans, and communicate with the registrar office to solve as much as I can any problems with registration. In regard to the curriculum, served on the school curriculum committee as a member for two years and was directly involved in improving our pharmacy program to improve the flow, clarity and overall organization of the courses to enhance students learning. I was involved in developing a master plan for Pharmaceutical and Medicinal Chemistry.

Al-Ahliyya Amman University, Jordan from 2011 till 2012.

I am a faculty member of the Department of Pharmacognosy and Medicinal Chemistry during the same period I delivering my teaching and conducting my research. I supervised many undergraduate students in their research projects.

I am an Associate Professor of Medicinal Chemistry with more than 50 publications in peer-reviewed journals. My H-index is 16 with a round 575 citations. The major areas of my research interest are design, development and modeling of potent small molecules as anticancer agents.

BIOGRAPHICAL AND PERSONAL INFORMATION:

Born: September 11th, 1975, Kuwait.
Sex: Male.
Marital Status: Married.
Country of Citizenship: Australian/Jordanian.
Permanent Address: Dept. of Pharmacognosy & Pharmaceutical Chem.,
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EDUCATION:

- **PhD in Medicinal Chemistry and Drug Design, May 2011, La Trobe University, Australia.**
 - Thesis title: Synthesis, Identification, DNA-PK, Anti-platelet and Anti-microbial activity of 2-Amino-Benzo- and Naphth-1,3-Oxazin-4-One.
 - Supervisors: Prof. Jasim Al-rawi and Dr. Christopher Bradley.
- **Master Degree in Bio-pharmaceutical, 2003, University of New South Wales, Australia.**
 - Thesis title: The use of Agarose Gel Assays of Bis-intercalating Di-acridines on the Super-Cooling of Covalence Closed Circular DNA.
 - Supervisors: Prof. Larry Wecklin.
- **Bachelor degree in Pharmacy, 1998, Baluchistan University, Pakistan.**

MAJOR RESEARCH INTEREST:

- Design, development and modeling of potent small molecules as anticancer agents.

Teaching units

➤ **Pharmaceutical and Medicinal Chemistry I**

This course is an introduction to organic chemistry, focusing primarily on the basic principles to understand the structure, properties, nomenclature, isomerization, stereochemistry, reactions and practical methods for identification of major organic functional group. This course also provides an introduction to the chemistry of heterocyclic compounds.

Upon successful completion of the course, the students will be able to: 1) Explain the atomic properties of organic compounds. 2) Describe Nomenclature (IUPAC and common) and drawing structure of organic compounds. 3) Clarify the principal aspects of stereochemistry of organic reactions and their mechanisms. 4) Identify practically organic compounds.

➤ **Pharmaceutical and Medicinal Chemistry II** Course Description This course focuses on the basics aspects of pharmaceutical chemistry and current targets involved in the drug discovery process. Students will discuss the structure-activity relationship (SAR) concept for some drug classes such as cardiovascular drugs, anti-diabetic drugs and calcium regulating drugs. In addition, student will also be able to quantify the physicochemical properties and their effects on the biological activity.

Upon successful completion of the course, the students will be able to: 1) Recognize the influence of physicochemical properties of the drug on its pharmacological action. 2) Identify the nature of drug-target interaction. 3) Classify drug classes according to chemical structure, properties and mechanism of action. 4) Design and analyze some drugs of cardiovascular and anti-diabetic activity.

➤ **Pharmaceutical and Medicinal Chemistry III** This course covers major drug classes of chemotherapeutic agents with respect structure, drug discovery and development process, physicochemical properties, drug target interactions and structure-activity relationship (SAR) analysis.

Upon successful completion of this course, students will 1) Classify major drug classes with respect to their chemical properties. 2) Define the structure activity relationship (SAR) of chemotherapeutic agents. 3) Identify practically and computationally some medicinal compounds. 4) Explain different mode of action and metabolic pathway of chemotherapeutic agents.

➤ **Pharmaceutical and Medicinal Chemistry IV** This course provides the knowledge of structural analysis of different drug classes targeting nervous system and focuses on the extensive study of their structure-activity relationships (SAR). Drugs affecting autonomic and central nervous systems, steroidal anti-inflammatory drugs (NSAID) as well as narcotic analgesics are targeted in this course.

➤ **Chemical Analysis (Spectroscopy part).**

EMPLOYMENT HISTORY:

- 2022-present:** Associate Professor of Organic/medicinal Chemistry (Faculty of Pharmacy, Jadara University, Jordan).
- 2018-Present:** Associate Professor of Organic/medicinal Chemistry (Faculty of Pharmacy, Taibah University, Kingdom of Saudi Arabia).
- 2014-2016:** Acting Chairman of the Department of Pharmacognosy and Medicinal Chemistry, Faculty of Pharmacy, Taibah University, madina Al-Munuwarah, Suadi Arabia.
- 2012-2018:** Assistant Professor of Organic/Medicinal Chemistry (Faculty of Pharmacy, Taibah University, Kingdom of Saudi Arabia).
- 2011-2012:** Assistant Professor of Medicinal Chemistry (Faculty of Pharmacy & Medical Science, Al-Ahliyya Amman University, Jordan).
- 2010-2011:** Research Assistant (Faculty of Pharmacy, LaTrobe University, Australia).
- 2007–2010:** Demonstrator in the Undergraduate Organic Chemistry Laboratories (La Trobe University, Australia).
- 2003-2007:** Production Support Associate/Process Validation (Hospira Pharmaceuticals Australia Pty Ltd).
- 2001-2003:** Laboratory Assistance (University of New South Wales, Australia).
- 1998-2000:** Pharmacist (Al-Qayrawan Pharmacy, Jordan).

AWARDS:

Australian Scholarship to earn Ph.D degree for the period 2007-2011

- School of Pharmacy and the Research Institute of Pharmaceutical Sciences, La Trobe University Bendigo, **Australia.**

MEMBERSHIPS:

- Registered pharmacist in Jordan.
- Member of the Pharmaceutical Society of Jordan.
- Member of the Institute Medical Scientists of Australia.

LABORATORYSKILLS:

Laboratory skills, including use of highly complex analytical machines and apparatus developed through degree especially honors project.

- Capable of operating Nuclear Magnetic Resonance Spectroscopy (NMR).
- Capable of operating FT-IR.
- Capable of running Column Chromatography.

PUBLICATIONS:

- **S. Ihmaid**, J. Al-Rawi, C. Bradley. 'Synthesis, structural elucidation and DNA-dependant protein kinase and anti-platelet studies of 2-amino-[5, 6, 7, 8-mono and 7, 8-di-substituted]-1,3-benzoxazines', *J. Eur. Med. Chem.*, 45 (2010) 4934-46
- **S. Ihmaid**, J. Al-Rawi, C. Bradley, M. Angove, M. Robertson and R. Clark, 'Synthesis, structural elucidation and DNA-PK IC₅₀, docking and anti-platelet activity studies of morpholino-substituted-naphtho-1,3-oxazines', *J. Bioorg. Med. Chem.*, 19 (13) (2011) 3983-94.
- **S. Ihmaid**, J. Al-Rawi, C. Bradley, M. Angove, 'Synthesis, structural elucidation, DNA-PK IC₅₀, and anti-platelet activity studies of 2-morpholino-(7,8-di and 8-substituted)-1,3-benzoxazines and 2-(N-substituted-3-aminopyridine)-substituted-1,3-benzoxazines', *J. Eur. Med. Chem.*, 57 (2012) 85-101.
- C. Fitzgibbon, **S. Ihmaid**, J. Al-Rawi, T. M.-Andrews, C. Bradley 'Chemo-sensitisation of HeLa cells to Etoposide by a Benzoxazine in the absence of DNA-PK inhibition', *Invest New Drugs.*, (2013), 31:1466-1475.
- T. Belz, **S. Ihmaid**, J. Al-Rawi, S. Petrovski 'Synthesis characterization and anti-bacterial activity of N-(benzyl carbamothioyl)-2-hydroxy substituted benzamide and 2-benzyl amino-substituted-benzoxazines', *International J. of Med. Chem.*, (2013), ID 436397, 20 pages.
- Rejitha Suraj, Rick Morrisson, **Saleh Ihmaid**, Christopher Bradley, Terri Meehan Andrews and Jasim Al-Rawi 'Characterization of novel PI3K family inhibitors as sensitizers to Doxorubicin', *J Cancer Sci. Ther.*, (2013), 10.4172/1948-5956.S1.029.
- Suraj Radhamani, Christopher Bradley, Terri Meehan-Andrews, **Saleh K Ihmaid**, Jasim Al-Rawi 'Radiosensitizing activity of a novel Benzoxazine through the promotion of

apoptosis and inhibition of DNA repair', Invest New Drugs., (2014) [10.1007/s10637-014-0079-4](https://doi.org/10.1007/s10637-014-0079-4).

- Rick Morrison, Tyson Belz, **Saleh K. Ihmaid**, Jasim M. A. Al-Rawi, Michael J. Angove 'Dual and/or selective DNA-PK, PI3K inhibition and isoform selectivity of some new and known 2-amino-substituted-1,3-benzoxazines and substituted-1,3-naphthoxazines', Med. Chem. Res., (2014), 23:4680-4691 .
- **Saleh K. Ihmaid**, Cheree Fitzgibbon and Jasim M. A. Al-Rawi 'Synthesis, Toxicity and Chemo-Sensitization of HeLa cells to Etoposide, of some 2- methyl amino acid ester-substituted-1,3-benzoxazines', Med. Chem. Res., (2015), 24:2825-2837.
- Mohamed F. Zayed, Hany E. A. Ahmed, **Saleh Ihmaid**, Abdel-Sattar M. Omar, Adel S. Abdelrahhim 'Synthesis and screening of some new fluorinated quinazolinone-sulphonamide hybrids as anticancer agents', JTUMED., (2015),10(3), 333-339.
- Hany Emary Ali Ahmed, Mohamed F. Zayed, **Saleh Ihmaid** 'Molecular pharmacophore selectivity studies, virtual screening, and in silico ADMET analysis of GPCR antagonists', Med. Chem. Res., (2015), 24:3537-3550.
- **Saleh K. Ihmaid**, Hany E. A. Ahmed, Mohamed F. Zayed, Mohammed M. Abadleh 'Self Organizing Map-Based Classification of Cathepsin k and S Inhibitors with Different Selectivity Profiles Using Different Structural Molecular Fingerprints: Design and Application for Discovery of Novel Hits', Molecules (2016), [10.3390/molecules21020175](https://doi.org/10.3390/molecules21020175)
- Heba S. Rateb, Hany E. A. Ahmed, Sahar Ahmed, **Saleh Ihmaid**, Tarek H Afifi 'Discovery of Novel Phthalimide Analogs: Synthesis, Antimicrobial and Antitubercular Screening with Molecular Docking Studies', EXCLI Journal (2016);15:781-796.
- Mohamed F. Zayed , **Saleh K. Ihmaid** , Hany E. A. Ahmed , Khaled El-Adl , Ahmed M. Asiri and Abdelsattar M. Omar 'Synthesis, Modelling, and Anticonvulsant Studies of New Quinazolines Showing Three Highly Active Compounds with Low Toxicity and High Affinity to the GABA-A Receptor', Molecules (2017), [10.3390/molecules22020188](https://doi.org/10.3390/molecules22020188).
- **Saleh Ihmaid**, Hany E.A. Ahmed, Adeeb Al-Sheikh Ali, Yousery E. Sherif, Hamadeh M. Tarazi, Sayed M. Riyadh, Mohamed F. Zayed, Hamada S. Abulkhair, Heba S. Rateb 'Rational design, synthesis, pharmacophore modeling, and docking studies for identification of novel potent DNA-PK inhibitors', Bioorganic Chemistry (2017), 72, 234–247.

- Sayed M. Riyadh, Anwar A. Deawaly, Hany Ahmed, **Saleh Ihmaid** ‘Novel arylazothiazoles and arylazo[1,3,4]thiadiazoles as potential antimicrobial and anticancer agents: synthesis, molecular modeling, and biological screening’, *Med. Chem. Res.* (2017), [10.1007/s00044-017-1905-y](https://doi.org/10.1007/s00044-017-1905-y).
- Hany Ahmed, **Saleh Ihmaid**, Abdelsattar M. Omar, Ahmed M Shehata, Heba Rateb, Mohammed F. Zayed, Sahar Ahmed, Mahmoud M. Elaasser ‘Design, Synthesis, Molecular Docking of New Lipophilic Acetamide Derivatives Affording Potential Anticancer and Antimicrobial Agents’, *Bioorganic Chemistry* (2017), [10.1016/j.bioorg.2017.11.019](https://doi.org/10.1016/j.bioorg.2017.11.019)
- Mohamed Alswah, Ashraf H. Bayoumi, Kamal Elgamal, Ahmed Elmorsy, **Saleh Ihmaid** and Hany E. A. Ahmed ‘Design, Synthesis and Cytotoxic Evaluation of Novel Chalcone Derivatives Bearing Triazolo[4,3-a]-quinoxaline Moieties as Potent Anticancer Agents with Dual EGFR Kinase and Tubulin Polymerization Inhibitory Effects’, *Molecules* (2018), [10.3390/molecules23010048](https://doi.org/10.3390/molecules23010048).
- **Saleh Ihmaid**, Hany E. A. Ahmed and Mohamed F. Zayed ‘The Design and Development of Potent Small Molecules as Anticancer Agents Targeting EGFR TK and Tubulin Polymerization’, *Int. J. Mol. Sci.* (2018), [10.3390/ijms1920408](https://doi.org/10.3390/ijms1920408).
- **Saleh Ihmaid** ‘Exploring the Dual Inhibitory Activity of Novel Anthranilic Acid Derivatives towards α -Glucosidase and Glycogen Phosphorylase Antidiabetic Targets: Design, In Vitro Enzyme Assay, and Docking Studies’, *Molecules* (2018), 23, 1304; [10.3390/molecules23061304](https://doi.org/10.3390/molecules23061304).
- Mohamed Zayed, Sahar Ahmed, **Saleh Ihmaid**, Hany Emary, Heba Rateb, Sabrin Ibrahim ‘Design, Synthesis, Cytotoxic Evaluation and Molecular Docking of New Fluoroquinazolinones as Potent Anticancer Agents with Dual EGFR Kinase and Tubulin Polymerization Inhibitory Effects’, *Int. J. Mol. Sci.* (2018), [19\(6\):1731 10.3390/ijms19061731](https://doi.org/10.3390/ijms19061731).
- Hany E. A. Ahmed, Mohammed A. A. El-Nassag, Ahmed H. Hassan, Rawda M. Okasha, **Saleh Ihmaid**, Ahmed M. Fouda, Tarek H. Afifi, Ateyatallah Aljuhani & Ahmed M. El-Agrody ‘Introducing novel potent anticancer agents of 1Hbenzo[f]chromene scaffolds, targeting c-Src kinase enzyme with MDA-MB-231 cell line anti-invasion effect’, *Journal of Enzyme Inhibition and Medicinal Chemistry* (2018), 33:1, 1074-1088; [10.1080/14756366.2018.1476503](https://doi.org/10.1080/14756366.2018.1476503).
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- Hany E. A. Ahmed, Mohammed A. A. El-Nassag, Ahmed H. Hassan, Hany M. Mohamed, Ahmed H. Halaw, Rawda M. Okash, **Saleh Ihmaid**, Shima Mohamed Abd El-Gililf, Essam S. A. E. H. Khatta, Ahmed M. Foudag Ahmed M. El-Agrody, Ateyatallah Aljuhani, Tarek H. Afifi 'Developing lipophilic aromatic halogenated fused systems with specific ring orientations, leading to potent anticancer analogs and targeting the c-Src Kinase enzyme', *Journal of Molecular Structure* (2019), 1186, 15, 212-223, [10.1016/j.molstruc.2019.03.012](https://doi.org/10.1016/j.molstruc.2019.03.012).
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- Mohamed Reda Aouad, Hannan Musallam Al-Mohammadi, Fawzia Faleh Al-blewi, **Saleh Ihmaid**, Hossein Mostafa El badawy, Sultan Saad Althagfan, Nadjat Rezki 'Introducing of acyclonucleoside analogues tethered 1,2,4-triazole as anticancer agents with dual epidermal growth factor receptor kinase and microtubule inhibitors', *Bioorganic Chemistry* 94 (2020) 103446, [10.1016/j.bioorg.2019.103446](https://doi.org/10.1016/j.bioorg.2019.103446).
- Abdelsattar M. Omar, **Saleh Ihmaid**, EL-Sayed E. Habib, Sultan S. Althagfan, Sahar Ahmed, Hamada S Abulkhair, Hany E. A. Ahmed 'The Rational Design, Synthesis, and Antimicrobial Investigation of 2-Amino-4-Methylthiazole Analogues Inhibitors of GlcN-6-P Synthase', *Bioorganic Chemistry* 99 (2020) 103781, [10.1016/j.bioorg.2020.103781](https://doi.org/10.1016/j.bioorg.2020.103781)
- Salsabeel A. Al-Sodies, Mohamed Reda Aouad, **Saleh Ihmaid**, Ateyatallah Aljuhani, Mouslim Messali, Imran Ali, Nadjat Rezki 'Microwave and conventional synthesis of ester based dicationic pyridinium ionic liquids carrying hydrazone linkage: DNA binding, anticancer and docking studies', *Journal of Molecular Structure* 1207 (2020) 127756, [10.1016/j.molstruc.2020.127756](https://doi.org/10.1016/j.molstruc.2020.127756)
- Abdelsattar M. Omar, Jürgen Bajorath, **Saleh Ihmaid**, Hany M. Mohamed, Ahmed M. El-Agrody, Ahmed Mora, Moustafa E. El-Araby, Hany E.A. Ahmed 'Novel molecular discovery of promising amidine-based thiazole analogues as potent dual Matrix Metalloproteinase-2 and 9 inhibitors: Anticancer activity data with prominent cell cycle Arrest and DNA fragmentation analysis effects', *Bioorganic Chemistry* 101 (2020) 103992, [10.1016/j.bioorg.2020.103992](https://doi.org/10.1016/j.bioorg.2020.103992)
- Nadjat Rezki, Meshal A. Almehmadi, **Saleh Ihmaid**, Ahmed M. Shehata, Abdelsattar M. Omar, Hany E. A. Ahmed, Mohamed Reda Aouad 'Novel Scaffold Hopping of Potent Benzothiazole and Isatin Analogues linked to 1,2,3-Triazole Fragment that Mimics

Quinazoline Epidermal Growth Factor Receptor Inhibitors: Synthesis, Antitumor and Mechanistic Analyses', *Bioorganic Chemistry* 103:104133 (2020) [10.1016/j.bioorg.2020.104133](https://doi.org/10.1016/j.bioorg.2020.104133)

- **Saleh K. Ihmaid**, Shaya Yahya Alraqa, Mohamed R. Aouad, Ateyatallah Aljuhani, Hossein M. Elbadawy, Abdelsattar M. Omar, Nadjat Rezkia, Hany E.A. Ahmed 'Design of Molecular Hybrids of Phthalimide-Triazole Agents with Potent Cytotoxic MCF-7/HepG2 Selectivity: Synthesis, EGFR Inhibitory Effect, and Metabolic Stability', *Bioorganic Chemistry* 111(51):104835(2021), [10.1016/j.bioorg.2021.104835](https://doi.org/10.1016/j.bioorg.2021.104835)
- Fawzia Al-Blewi, Salma Akram Shaikh, Arshi Naqvi, Faizah Aljohani, Mohamed Reda Aouad, **Saleh Ihmaid**, Nadjat Rezki 'Design and Synthesis of Novel Imidazole Derivatives Possessing Triazole Pharmacophore with Potent Anticancer Activity, and In Silico ADMET with GSK-3 β Molecular Docking Investigations', *Int J Mol Sci* 25;22(3):1162 (2021) [10.3390/ijms22031162](https://doi.org/10.3390/ijms22031162)
- **Saleh K. Ihmaid**, Ateyatallah Aljuhani, Mosa Alsehli, Nadjat Rezkib, Ali Alawi, Ahmed J. Aldhafiri, Samir A. Salama, Hany E.A. Ahmed, Mohamed R. Aouad Discovery of triaromatic flexible agents bearing 1,2,3-Triazole with selective and potent anti-breast cancer activity and CDK9 inhibition supported by molecular dynamics', *Journal of Molecular Structure* 1249 (2021) 131568 <https://doi.org/10.1016/j.molstruc.2021.131568>
- Amin Khattab, Fahad Dakilallah Aljohani, Roa Halawani, Heba Mahmoud Eltahir, Ahmed M. Shehata, **Saleh K. Ihmaid**, Ahmed Aldhafiri, Mekky Abouzied, Najwa M. Almaghrabi, Heba M. H. Matar, Hossein M. Elbadawy and Hanaa Wanas 'The Effect of Antibiotics and Drugs on the Duration of COVID-19 in Hospitalized Patients', *Journal of Pharmaceutical Research International* 33(47A): 49-58, (2021) [10.9734/jpri/2021/v33i47A32988](https://doi.org/10.9734/jpri/2021/v33i47A32988)
- Hany E. A. Ahmed, Adel Amer, Samir A. Senior, **Saleh Ihmaid**, Mohammad Almalghrabi, Abdel-Moneim El Massry, Sahar Ahmed, Arafa Musa, Mohannad A. Almikhlaifi, Samir A. Salama and Ahmed A. elhenawy 'Extensive Study of DFT-Quantum Calculations Based QSAR Modeling of Fused 1,2,4-Triazine Derivatives Revealed Potent CYP1A1 Inhibitors', *Journal of Computational Biophysics and Chemistry*, (2022) <https://doi.org/10.1142/S2737416522300036>
- Mosa Alsehli, Ateyatallah Aljuhani, Saleh K. Ihmaid, Shahenda M. El-Messery, Dina I. A. Othman, Abdel-Aziz A. A. El-Sayed, Hany E. A. Ahmed, Nadjat Rezki and Mohamed R. Aouad 'Extensive Study of DFT-Quantum Calculations Based QSAR Modeling of Fused 1,2,4-Triazine Derivatives Revealed Potent CYP1A1 Inhibitors', *Design and Synthesis of Benzene Homologues Tethered with 1,2,4-Triazole and 1,3,4-Thiadiazole Motifs Revealing Dual MCF-7/HepG2 Cytotoxic Activity with Prominent Selectivity via Histone Demethylase LSD1 Inhibitory Effect*, *Int. J. Mol. Sci.* (2022), 23, 8796. <https://doi.org/10.3390/ijms23158796>.

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- Azizah M Malebari, Hany E A Ahmed, Saleh K Ihmaid, Abdelsattar M Omar, Yosra A Muhammad, Sultan S Althagfan, Naif Aljuhani, Abdel-Aziz A A El-Sayed, Ahmed H Halawa, Heba M El-Tahir, Safaa A Turkistani, Mohammed Almaghrabi, Ahmed K B Aljohani, Ahmed M El-Agrody, Hamada S Abulhair 'Exploring the dual effect of novel 1,4-diarylpyranopyrazoles as antiviral and anti-inflammatory for the management of SARS-CoV-2 and associated inflammatory symptoms', Bioorg Chem (2023), 130:106255 [doi: 10.1016/j.bioorg.2022.106255](https://doi.org/10.1016/j.bioorg.2022.106255).
- Arafa Musa, **Saleh K Ihmaid**, David L Hughes, Musa A Said, Hamada S Abulhair, Ahmed H El-Ghorab, Mohamed A Abdelgawad, Khaled Shalaby, Mohamed E Shaker, Khalid Saad Alharbi, Nasser Hadal Alotaibi, Deborah L Kays, Laurence J Taylor, Della Grace Thomas Parambi, Sami I Alzarea, Ahmed A Al-Karmalawy, Hany E A Ahmed, Ahmed M El-Agrody 'The anticancer and EGFR-TK/CDK-9 dual inhibitory potentials of new synthetic pyranopyrazole and pyrazolone derivatives: X-ray crystallography, in vitro, and in silico mechanistic investigations', J Biomol. Struct. Dyn. (2023), 20;1-15 [doi: 10.1080/07391102.2023.2167000](https://doi.org/10.1080/07391102.2023.2167000)