

## Prof. SULTAN BAYTAŞ

### Personal Information

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### Education Information

Doctorate, Gazi University, Sağlık Bilimleri Enstitüsü, Farmasotik Kimya (Dr), Turkey 1996 - 2002

Post Graduate, Gazi University, Sağlık Bilimleri Enstitüsü, Farmasotik Kimya (YI) (Tezli), Turkey 1993 - 1996

Under Graduate, Gazi University, Eczacılık Fakültesi, Eczacılık Pr. (4 Yıllık), Turkey 1989 - 1993

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Bazı 7-Açıl-3-sübstitüe-5-kloro-2-benzoksazolinon Türevleri Üzerinde Çalışmalar, Gazi University, Sağlık Bilimleri Enstitüsü, Farmasotik Kimya (Dr), 2002

Post Graduate, 1,2,5-Trisübstitüebenzimidazol Türevi Bileşiklerin Sentezi, Yapı Açıklamaları ve Aktiviteleri, Gazi University, Sağlık Bilimleri Enstitüsü, Farmasotik Kimya (YI) (Tezli), 1996

### Research Areas

Health Sciences

### Academic Titles / Tasks

Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2014 - Continues

Associate Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2008 - 2014

Assistant Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2006 - 2008

Lecturer, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2005 - 2006

Lecturer, Rensselaer Polytechnic Institute, Chemistry, 2003 - 2005

Lecturer, The University of Iowa, Pharmacy College, Natural Product And Medicinal Chemistry, 2003 - 2003

Expert, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2002 - 2003

Research Assistant, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 1993 - 2002

### Advising Theses

BAYTAŞ S., Synthesis And Bioactivity Studies On Some Indol-1,2,4-Triazol Hybrid Compounds, E.Korkut(Student), 2018

BAYTAŞ S., Bazı indol-1,2,4-triazol hibrit bileşikler üzerinde sentez ve biyoaktivite çalışmaları, Post Graduate,

E.KORKUT(Student), 2018

BAYTAŞ S., Anticancer effects for new indole derivatives, design, synthesis and evaluation of activity, Doctorate, M.M.A. (Student), 2017

BAYTAŞ S., The synthesis of new derivatives of 1,3-diarylpyrazole chalcones and investigation of their biological activity, Post Graduate, F.EREN(Student), 2014

BAYTAŞ S., Yeni diariilpirazol türevlerinin sentezi ve biyolojik aktivitelerinin incelenmesi, Post Graduate, N.İNCELER(Student), 2012

BAYTAŞ S., Yeni indol türevlerinin sentezi ve biyolojik aktivitelerinin incelenmesi, Post Graduate, E.KAPÇAK(Student), 2011

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Preparation of low molecular weight heparin from a remodeled bovine intestinal heparin**  
Baytaş S., Varghese S. S. , Jin W., Yu Y., He P., Douaisi M., Zhang F., Brodfuehrer P., Xia K., Dordick J. S. , et al.  
Journal Of Medicinal Chemistry, vol.64, no.4, pp.2242-2253, 2021 (Journal Indexed in SCI)
- II. **Advances in the preparation and synthesis of heparin and related products**  
BAYTAŞ S., Linhardt R. J.  
DRUG DISCOVERY TODAY, vol.25, no.12, pp.2095-2109, 2020 (Journal Indexed in SCI)
- III. **N-glycolyl chondroitin synthesis using metabolically engineered E. coli**  
Awofiranye A. E. , Baytas S., Xia K., Badri A., He W., Varki A., Koffas M., Linhardt R. J.  
AMB EXPRESS, vol.10, no.1, 2020 (Journal Indexed in SCI)
- IV. **Enzymatic Synthesis of Chondroitin Sulfate E to Attenuate Bacteria Lipopolysaccharide-Induced Organ Damage**  
Li J., Sparkenbaugh E. M. , Su G., Zhang F., Xu Y., Xia K., He P., BAYTAŞ S., Pechauer S., Padmanabhan A., et al.  
ACS CENTRAL SCIENCE, vol.6, no.7, pp.1199-1207, 2020 (Journal Indexed in SCI)
- V. **An overview of microtubule targeting agents for cancer therapy**  
KARAHALİL B., Yardim-Akaydin S., BAYTAŞ S.  
ARHIV ZA HIGIJENU RADA I TOKSIKOLOGIJU-ARCHIVES OF INDUSTRIAL HYGIENE AND TOXICOLOGY, vol.70, no.3, pp.160-172, 2019 (Journal Indexed in SCI)
- VI. **Chemoenzymatic synthesis of heparan sulfate tetrasaccharide from a N-acetyl-alpha-D-glucosamine-O-methylglycoside acceptor**  
Zhang X., Dickinson D. M. , Lin L., Suflita M., BAYTAŞ S., Linhardt R. J.  
TETRAHEDRON LETTERS, vol.60, no.13, pp.911-915, 2019 (Journal Indexed in SCI)
- VII. **Investigation of potent anticarcinogenic activity of 1, 3-diarylpyrazole acrylamide derivatives in vitro**  
DEMİROĞLU ZERGEROĞLU A., Ayvali N., Turhal G., Ceylan H., BAYTAŞ S.  
JOURNAL OF PHARMACY AND PHARMACOLOGY, vol.70, no.12, pp.1619-1629, 2018 (Journal Indexed in SCI)
- VIII. **Design, synthesis and biological evaluation of novel 1,3-diarylpyrazoles as cyclooxygenase inhibitors, antiplatelet and anticancer agents**  
Inceler N., ÖZKAN Y., Turan N. N. , KAHRAMAN D. C. , ATALAY R., BAYTAŞ S.  
MEDCHEMCOMM, vol.9, no.5, pp.795-811, 2018 (Journal Indexed in SCI)
- IX. **Synthesis and biological evaluation of novel pyrazolic chalcone derivatives as novel hepatocellular carcinoma therapeutics**  
Hawash M. M. A. , KAHRAMAN D. C. , Eren F., ATALAY R., BAYTAŞ S.  
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.129, pp.12-26, 2017 (Journal Indexed in SCI)
- X. **Synthesis, biological evaluation and molecular docking studies of trans-indole-3-acrylamide derivatives, a new class of tubulin polymerization inhibitors**  
BAYTAŞ S., Inceler N., Yilmaz A., OLĞAÇ A., Menevse S., BANOĞLU E., Hamel E., Bortolozzi R., Viola G.  
BIOORGANIC & MEDICINAL CHEMISTRY, vol.22, no.12, pp.3096-3104, 2014 (Journal Indexed in SCI)
- XI. **Novel 1,3-diarylpyrazole acrylamides: synthesis, antiplatelet activity screening, and in silico**

#### **evaluation studies**

BAYTAŞ S., Inceler N., ÖZKAN Y., Unlu S., Sahin M. F.

MEDICINAL CHEMISTRY RESEARCH, vol.22, no.12, pp.5922-5933, 2013 (Journal Indexed in SCI)

- XII. **Synthesis, cytotoxicity, and molecular properties prediction of novel 1,3-diarylpyrazole derivatives**  
BAYTAŞ S., Inceler N., Yilmaz A.  
MEDICINAL CHEMISTRY RESEARCH, vol.22, no.10, pp.4893-4908, 2013 (Journal Indexed in SCI)
- XIII. **Synthesis of ester and amide derivatives of 1-phenyl-3-(thiophen-3-yl)-1H-pyrazole-4-carboxylic acid and study of their anticancer activity**  
Inceler N., Yilmaz A., BAYTAŞ S.  
MEDICINAL CHEMISTRY RESEARCH, vol.22, no.7, pp.3109-3118, 2013 (Journal Indexed in SCI)
- XIV. **Synthesis of antipyrine/pyridazinone hybrids and investigation of their in vivo analgesic and anti-inflammatory activities**  
BAYTAŞ S., Inceler N., Mavaneh K. F., ULUDAĞ M. O., Abacioglu N., Gokce M.  
TURKISH JOURNAL OF CHEMISTRY, vol.36, no.5, pp.734-748, 2012 (Journal Indexed in SCI)
- XV. **Synthesis, anti-inflammatory, antiplatelet and in silico evaluations of (E)-3-(3-(2,3-dihydro-3-methyl-2-oxo-3H-benzoxazole-6-yl)-1-phenyl-1H-pyrazole-4-yl)acrylamides**  
BAYTAŞ S., Dural N. N. T., ÖZKAN Y., Simsek H. B., Gursel T., Unlu S.  
TURKISH JOURNAL OF CHEMISTRY, vol.36, no.3, pp.367-382, 2012 (Journal Indexed in SCI)
- XVI. **Synthesis and antioxidant and antimicrobial evaluation of novel 4-substituted-1H-1,2,4-triazole derivatives**  
BAYTAŞ S., Kapcak E., ÇOBAN T., Ozbilge H.  
TURKISH JOURNAL OF CHEMISTRY, vol.36, no.6, pp.867-884, 2012 (Journal Indexed in SCI)
- XVII. **Glycosylation in room temperature ionic liquid using unprotected and unactivated donors**  
Park T., Weiwer M., Yuan X., BAYTAŞ S., Munoz E. M., Murugesan S., Linhardt R. J.  
CARBOHYDRATE RESEARCH, vol.342, pp.614-620, 2007 (Journal Indexed in SCI)
- XVIII. **Synthesis of the amide derivatives of 3-[1-(3-pyridazinyl)-5-phenyl-1H-pyrazole-3-yl]propanoic acids as potential analgesic compounds**  
BANOĞLU E., Sukuroglu M. K., Ergun B., BAYTAŞ S., Aypar E., Aark M.  
TURKISH JOURNAL OF CHEMISTRY, vol.31, no.6, pp.677-687, 2007 (Journal Indexed in SCI)
- XIX. **Synthesis of double C-glycoside analogue of sTn**  
Ress D., BAYTAŞ S., Wang Q., Munoz E., Tokuzoki K., Tomiyama H., Linhardt R.  
JOURNAL OF ORGANIC CHEMISTRY, vol.70, no.20, pp.8197-8200, 2005 (Journal Indexed in SCI)
- XX. **Solid-phase chemoenzymatic synthesis of C-sialosides**  
BAYTAŞ S., Wang Q., Karst N., Dordick J., Linhardt R.  
JOURNAL OF ORGANIC CHEMISTRY, vol.69, no.20, pp.6900-6903, 2004 (Journal Indexed in SCI)
- XXI. **Combinatorial carbohydrate synthesis**  
BAYTAŞ S., Linhardt R.  
MINI-REVIEWS IN ORGANIC CHEMISTRY, vol.1, no.1, pp.27-39, 2004 (Journal Indexed in SCI)
- XXII. **Studies on novel 7-acyl-5-chloro-2-oxo-3H-benzoxazole derivatives as potential analgesic and anti-inflammatory agents**  
Unlu S., BAYTAŞ S., Kupeli E., Yesilada E.  
ARCHIV DER PHARMAZIE, vol.336, pp.310-321, 2003 (Journal Indexed in SCI)
- XXIII. **Synthesis and antinociceptive activity of (1-benzyl-2(3H)-benzimidazol-3-yl) acetic acid derivatives**  
Nacak S., DOĞRUER D. S., Sahin M.  
FARMACO, vol.54, pp.768-772, 1999 (Journal Indexed in SCI)
- XXIV. **Synthesis and antimicrobial activity of N-[(alpha-methyl)benzylidene]-(3-substituted-1,2,4-triazol-5-yl-thio) acetohydrazides**  
Ersan S., Nacak S., Berkem R.  
FARMACO, vol.53, no.12, pp.773-776, 1998 (Journal Indexed in SCI)
- XXV. **Synthesis and antimicrobial activities of 2-[(alpha-methylbenzylidene)-hydrazino]benzoxazoles**

- Ersan S., Nacak S., Berkem R., Ozden T.  
ARZNEIMITTELFORSCHUNG-DRUG RESEARCH, vol.47, no.8, pp.963-965, 1997 (Journal Indexed in SCI)
- XXVI. **Studies on analgesic and anti-inflammatory activities of 1-dialkylaminomethyl-2-(p-substituted phenyl)-5-substituted benzimidazole derivatives**  
Ersan S., Nacak S., Noyanalpan N., Yesilada E.  
ARZNEIMITTEL-FORSCHUNG/DRUG RESEARCH, vol.47, no.7, pp.834-836, 1997 (Journal Indexed in SCI)
- XXVII. **Synthesis and antimicrobial activity of beta-[(2-benzimidazolyl)thio]-beta-benzoyl styrene derivatives**  
Ersan S., Nacak S., Acar N., Ozden T.  
ARZNEIMITTEL-FORSCHUNG/DRUG RESEARCH, vol.47, no.6, pp.773-775, 1997 (Journal Indexed in SCI)
- XXVIII. **Synthesis and antimicrobial activity of 1-dialkylaminomethyl-2-(p-substituted phenyl)-5-substituted benzimidazole derivatives**  
Ersan S., Nacak S., Acar N.  
ARZNEIMITTEL-FORSCHUNG/DRUG RESEARCH, vol.47, no.4, pp.410-412, 1997 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Antiproliferative Activities of Some Biologically Important Scaffolds**  
Hawash M., BAYTAŞ S.  
FABAD J Pharm Sci, vol.43, pp.59-77, 2018 (Other Refereed National Journals)
- II. **Synthesis and Antimicrobial Activity of Some New Mannich Bases of 7 Acyl 5 chloro 2 oxo 3H benzoxazole Derivatives**  
BAYTAŞ S., ökçelik b., ünlü s., ŞAHİN M. F. , özkan s., ufeke a.  
Turkish J. Pharm. Sci., no.2, pp.25-33, 2005 (Other Refereed National Journals)

### Refereed Congress / Symposium Publications in Proceedings

- I. **ANTICANCER EFFECTS OF NEW INDOLE -PYRAZOLE AND ONDOLE-OSOXAZOLE HYBRIDS DESIGN, SYNTHESIS AND EVALUATION OF ACTIVITY**  
Hawash M. M. , Kahraman D. C. , ATALAY R., BAYTAŞ S.  
2nd International Gazi Pharma Symposium, 11 - 13 October 2017
- II. **HEPATOCELLULAR CARCİNOMA TERAPEUTICS: SYNTHESIS AND BIOLOGICAL EVALUATION INDOLE-3-CARBOXAMIDES**  
Kılıç E. K. , Kahraman D. C. , ATALAY R., BAYTAŞ S.  
2nd International Gazi Pharma Symposium, 11 - 13 October 2017
- III. **Induction of Apoptosis in Hepatocellular Carcinoma Cell Lines by Novel Indolylacrylamide Derivatives: Synthesis and Biological Evaluation**  
Hawash M., Kahraman D. C. , ATALAY R., BAYTAŞ S.  
26th ISHC Congress on Heterocyclic Chemistry, 3 - 08 September 2017
- IV. **NOVEL PYRAZOLE CHALCONES AS POTENT ANTICANCER AGENTS IN LIVER CANCER CELLS**  
HAWASH M., CANSEN YILDIRIM D., ÇETİN ATALAY R., BAYTAŞ S.  
XXIVInternational Symposium on Medicinal Chemistry(EFMC-ISMC 2016), 28 August - 01 September 2016
- V. **SYNTHESIS AND PRELIMINARY EVALUATION OF ANTICANCER EFFECTS OF INDOLE 3 CARBOXAMIDE DERIVATIVES IN HEPATOCELLULAR CARCINOMA CELL LINES**  
YÖRÜK G., CANSEN YILDIRIM D., ÇETİN TALAY R., BAYTAŞ S.  
XXIVInternational Symposium on Medicinal Chemistry(EFMC-ISMC 2016), 28 August - 01 September 2016
- VI. **E INDOLE 3 ACRYLAMIDE DERIVATIVES AS POTENTIAL ANTI HEPATOCELLULAR CARCINOMA AGENTS**  
hawash M., Cansen Yıldırım D., ÇetinAtalay R., BAYTAŞ S.

XXIV International Symposium on Medicinal Chemistry (EFMC-ISMC 2016), 28 - 01 September 2016

VII. **Yeni 1,3-Diarilpirazol Kalkon Türevlerinin Sentezi ve Biyolojik Aktivitelerinin İncelenmesi**  
BAYTAŞ S.

IV. Ulusal Farmasötik Kimya Kongresi, Cyprus (Kktc), 29 April - 01 May 2016

VIII. **DESIGN SYNTHESIS AND EVALUATION OF NOVEL 1,3-DIARYLPYRAZOLES AS DUAL COX-2 INHIBITORS**

BAYTAŞ S., İncele N., TURAN DURAL N. N., ÖZKAN Y.

GPSS2015, 12 - 15 November 2015

IX. **SYNTHESIS AND BIOLOGICAL EVALUATION OF NEW PYRAZOLE DERIVATIVES FOR NOVEL THERAPEUTIC OPPORTUNITIES OF HEPATOCELLULAR CARCINOMA**

Hawash M. A., Eren F., Yıldırım D. C., Çetin Atalay R., BAYTAŞ S.

GPSS2015, 12 - 15 November 2015

X. **Analgesic and Anti-Inflammatory Effect of Pyridazinones/Aminoantipyrine Hybrids.**

MAVANEH K., İNCELER N., BAYTAŞ S., UYSAL M., ULUDAĞ M. O., ABACIOĞLU N.

FASEB, 9 - 13 April 2011

## Supported Projects

BAYTAŞ S., Project Supported by Higher Education Institutions, Diarilpirazol Yapısında Antiplatelet ve Antienflamatuvar Aktivite Gösterebilecek Yeni Bileşik Sentezi ve Aktivite Tayinleri Üzerinde Çalışmalar, 2006 - Continues

BAYTAŞ S., TUBITAK Project, ANTİKANSER ETKİLİ OLABİLECEK YENİ İNDOL TÜREVLERİNİN TASARIMI SENTEZİ VE AKTİVİTELERİNİN İNCELENMESİ, 2014 - 2017

BAYTAŞ S., Project Supported by Higher Education Institutions, Yeni 1,3-Diarilpirazol Kalkon Türevlerinin Sentezi, 2012 - 2014

BAYTAŞ S., Project Supported by Higher Education Institutions, Yeni 1,3-Diarilpirazol Türevlerinin Antiplatelet Aktivitelerinin Tayini, 2012 - 2014

BAYTAŞ S., TUBITAK Project, Yeni 1,3-Diarilpirazol Kalkon Türevlerinin Sentezi, 2012 - 2014

BAYTAŞ S., Project Supported by Higher Education Institutions, İndolilakrilamid Türevi Bileşiklerin Antikanser Aktivitelerinin İncelenmesi, 2011 - 2012

BAYTAŞ S., Project Supported by Higher Education Institutions, Potent Antiplatelet Pirazol Türevi Bileşiklerin Sentezleri Üzerinde Çalışmalar, 2011 - 2012

BAYTAŞ S., Project Supported by Higher Education Institutions, Antipirin/6-Sübstitüe-3(2H)-piridazinon hibritlerinin sentezi, 2010 - 2012

BAYTAŞ S., Project Supported by Higher Education Institutions, İndol ester ve İndolkarboksiamit Türevlerinin Sentezi ve Antioksidan Aktivitelerinin İncelenmesi, 2010 - 2012

BAYTAŞ S., Project Supported by Higher Education Institutions, İndol Halkası Taşıyan 1,2,4-Triazol Türevlerinin Sentezi, 2010 - 2011

BAYTAŞ S., Project Supported by Higher Education Institutions, Antiplatelet ve Antienflamatuvar Aktivite Gösterebilecek Yeni 1,3-Diarilpirazol Türevlerinin Sentezi ve Biyolojik Aktivitelerinin Tayini, 2009 - 2011

## Citations

Total Citations (WOS):367

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