

# Curriculum Vitae

## Personal Information

**First Name:** Ali

Last Updated: 2019/01/16

**Surname:** Almasirad

**Languages:** Persian, English

**Address:** Department of Medicinal Chemistry, Faculty of Pharmacy, Tehran Medical Sciences, Islamic Azad University, Yasaman Allay, Yakhchal St, Shariati Ave, Tehran, Iran 1941933111

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## Educations:

- **Ph.D** in Medicinal Chemistry, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran, 2004.

*Title of Thesis:* Design, synthesis and pharmacological evaluation of [2-(phenylthio) phenyl] -1,3,4-oxadiazoles, thiadiazoles and their triazoles analogues and their sulfoxide, sulfone and phenoxy derivatives as potential BDZ ligands and CCK antagonists.

(Supervisor: Dr.A. Shafiee)

- **Pharm.D.** Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran, 1997.

*Title of Thesis:* Laboratory scale synthesis of cromolyn sodium.

(Supervisor: Dr. A. Shafiee)

## Research Publications:

- Khomami, A, Rahimi, M, Tabei, A, Saniee, P, Mahboubi, A, Foroumadi, A, Koopai, N.n, **Almasirad, A\***. Synthesis and Docking Study of Novel 4-Thiazolidinone Derivatives as Anti-Gram-positive and Anti-H. pylori Agents. *Mini reviews in medicinal chemistry*.2018, 19 (3), 239-249.
- Shademani, M, Nassiri Koopaei, N, Shirzad Yazdi, N, Azizian, H, Mousavi, Z, Salimi, M, **Almasirad, A\***. Anti-proliferative effects of new synthesized hydrazone derivatives on breast, colon and hepatic cancer cells. *Koomesh*, 2018, 20(4), 725-730.

- Mousavi E, Tavakolfar S, **Almasirad A**, Kooshafar Z, Dehghani S, Afsharinasab A, Amanzadeh A, Shafiee S, Salimi M. In vitro and in vivo assessments of two novel hydrazide compounds against breast cancer as well as mammary tumor cells. *Cancer Chemoth and Pharm*, 2017, 79(6),1195-203.
- Faizi M, Jahani R, Ebadi SA, Tabatabai SA, Rezaee E, Lotfaliei M, Amini M, **Almasirad A\***, Novel 4-thiazolidinone derivatives as agonists of benzodiazepine receptors: Design, synthesis and pharmacological evaluation. *EXCLI j*, 2017, 16:52-62.
- Azizian H, Mousavi Z, Faraji H, Tajik M, Bagherzadeh K, Bayat P, Shafiee A, **Almasirad A\***, Arylhydrazone derivatives of naproxen as new analgesic and anti-inflammatory agents: Design, synthesis and molecular docking studies. *J Mol Graph Model*, 2016, 67, 127-136.
- **Almasirad, A**, Firoozpour, L, Nejati, M, Edraki, N, Firuzi, O, Khoshneviszadeh, M, Mahdavi, M, Moghimi, S, Safavi, M, Shafiee, A, Foroumadi, A, Design, synthesis, and biological evaluation of new series of 2-amido-1, 3, 4-thiadiazole derivatives as cytotoxic agents. *Zeitschrift für Naturforschung B*, 2016, 71(3), pp.205-210.
- Tavakolfar, S, Musavi, E, **Almasirad, A**, Amanzadeh, A, Atyabi, S.M, Yaghamii, P, Samiee-Sadr, S. and Salimi, M, In vitro anticancer effects of two new potent hydrazide compounds in leukemic cells. *Anti-cancer agents in medicinal chemistry*, 2016, accepted for publication.
- Shafaroodi H, Barati S, Ghasemi M, **Almasirad A**, Moezi L, A role for ATP-sensitive potassium channels in the anticonvulsant effects of triamterene in mice *Epilepsy Research*, 2016, 121,8-13.
- Yazdi F, Minai-Tehrani D, Jahangirvand M, **Almasirad A**, Mousavi Z, Masoud M, Mollasalehi H, Functional and structural changes of human erythrocyte catalase induced by cimetidine: proposed model of binding, *Mol Cell Biochem*, 2015,404(1-2), 97-102.
- Assarzadeh MJ, **Almasirad A\***, Shafiee A, Nassiri Koopaei M, Abdollahi M, Synthesis of new thiazolo[3,2-b][1,2,4]triazole-6(5H)-one derivatives as potent analgesic and anti-inflammatory agents, *Med Chem Res*, 2014, 23, 948-957.
- **Almasirad A\***, Mousavi z, Tajik M, Assarzadeh MJ, Shafiee A, Synthesis, analgesic and anti-inflammatory activities of new methyl-imidazolyl-1,3,4-oxadiazoles and 1,2,4-triazoles, *DARU J Pharm Sci*, 2014,22(1),22.
- Bahrami K, Nazari P, Nabavi M, Golkar M, **Almasirad A**, Shahverdi A, Hydroxyl capped silver-gold alloy nanoparticles: characterization and their combination effect with different antibiotics against *Staphylococcus aureus*, *Nanomed J*, 2014, 1(3), 155-163.
- Sharifzadeh M, Khademi H, **Almasirad A**, Rezayan Z, Rezayan Ghayahbashi M, Amini M, Synthesis and anti convulsant activity of some non-classical

dihydropyridine like structures, *Letters in Drug Design and discovery*, 2013, 10, 900-905.

- Nassiri Koopaei M, **Almasirad A\***, Assarzadeh MJ, Ghasemi-Niri SF, Amini M, Kebriaeezadeh A, Nassiri Koopaei N, Ghadimi M and Tabei A, Synthesis and Analgesic Activity of Novel Hydrazide and Hydrazine Derivatives, *Iran J Pharm Res*, 2013, 12(4),721-727.
- Nassiri Koopaei M, Assarzadeh MJ, **Almasirad A\***, Ghasemi F, Amini M, Kebriaeezadeh A, Nassiri Koopaei N, Ghadimi M and Tabei A, Synthesis and analgesic activity of new phenoxybenzylidene aroylhydrazine derivatives, *J Pharm & Health Sci*,2013, 2(1), 57-62.
- **Almasirad A\***, Nassiri Koopaei M, Shafiee A, Nassiri Koopaei N, Assarzadeh MJ Tabei A, Synthesis of new 1,3-thiazoline-2-thiones as potential antimycobacterial agents, *J Pharm & Health Sci*, 2012,1(3), 15-20.
- **Almasirad A\***, Samiee-Sadr S, Shafiee A, Synthesis and antimycobacterial activity of 2- (phenylthio) benzoylarylhydrazone derivatives, *Iran J Pharm Res*,2011, 10(4), 727-731.
- **Almasirad A**, Shafiee A, Abdollahi M, Noeparast A, Shahrokhinejad N, Vousooghi N, Tabatabai SA, Khorasani R, Synthesis and analgesic activity of new 1,3,4-oxadiazoles and 1,2,4-triazoles, *Med Chem Res*,2011,20, 435-442.
- **Almasirad A**, Vousooghi N, Tabatabai SA, Kebriaeezadeh A, Shafiee A. Synthesis, Anti Convulsant and Muscle Relaxant Activities of 1,3,4-oxadiazole, 1,3,4-thiadiazole and 1,2,4-triazole, *Acta Chim Slov*,2007,54,317-324.
- **Almasirad A**, Amanzadeh Y, Taheri A, Iranshahi M. Composition of a Historical Rose Oil Sample, *J Essent Oil Res*,2007,19,110-112.
- **Almasirad A**, Hosseini R, Jalalizadeh H, Rahimi-Moghaddam Z, Abaeian N, Janafrooz M, Abbaspour M, Ziaee V, Dalvandi A, Shafiee A. Synthesis and analgesic activity of 2-phenoxybenzoic acid N-phenylanthranilic acid hydrazones, *Biol Pharm Bull*,2006,29(6):1180-1185.
- Jalalizadeh H, Souri E, Ghanami HRJ, **Almasirad A**, Foroumadi A. A Rapid and Sensitive HPLC Method for the Determination of 2-hydroxyflutamide in Human Plasma, *Int J Pharmacology*, 2006, 2(2):221-225.
- Bazargani YT, **Almasirad A**, Amin G, Shafiee A. Chemical Composition of the Essential Oils of *Astrodaucus Persicus* (Boiss.) Drude Root, Stem-Leaves and Flowers-fruits, *Flavour Frag J*, 2006, 21: 294-296.
- **Almasirad A**, Tjik M, Bakhtiari D, Abdollahi M, Zamani MJ, Khorasani R, Esmaily H, Shafiee A, Synthesis and analgesic activity of N-arylhydrazone derivatives of mefenamic acid, *J Pharm Pharm Sci*,2005,8(3) : 419-425.

- **Almasirad A**, Tabatabai A, Faizi M, Kebriaeezadeh A, Mehrabi N, Dalvandi A, Shafiee A. Synthesis and Anticonvulsant Activity of New 2-Substituted-5-[2-(2-fluorophenoxy)phenyl]-1,3,4-oxadiazoles and 1,2,4-triazoles, *Bioorg Med Chem Lett*, 2004, 14 : 6057-6059.
- **Almasi Rad A**, Sheikhha M, Hosseini R, Tabatabai SA, Shafiee A. Synthesis and Morphine Enhancement Activity of N- [5-(2-phenoxy phenyl)-1,3,4-oxadiazole-2-yl]-N'-phenyl urea derivatives, *Arch Pharm Pharm Med Chem*. 2004, 337(4) : 193 – 200.

### Presentations:

- Gholamreza Behnamifard, Taha Anvari, Seyade Zahra Mousavi, **Ali Almasirad**, Study of analgesic and anti-inflammatory activity of New Thiazolotriazole derivatives In Male Mice and Rats, *The 22<sup>nd</sup> Iranian Congress of Physiology and Pharmacology*, Kashan, Iran, 6-10 September, 2015.
- Mirzai M, **Almasirad A**, Nayebvali B, Quantitative structure property relationship (Q-SPR) modeling of drugs carrying caboxilic acid moiety by quantum mechanics calculations, *The National Students Congress on Pharmaceutical Sciences Mazandaran*, Iran, 13-14 November, 2014.
- Mousavi N, **Almasirad A**, Mirzai M, Quantitative structure property relationship (Q-SPR) modeling of thiazolidine-4-one derivatives, *The National Students Congress on Pharmaceutical Sciences*, Mazandaran, Iran, 13-14 November, 2014.
- Shirzad Yazdi N, **Almasirad A**, Azizian H, Synthesis of novel di-aryl-thiourea derivatives as potential antimicrobial agents, *The 15<sup>th</sup> International Iranian Congress of Microbiology*, Tehran, Iran, 26-28 August, 2014.
- Nasiri Kopaii N, Azizian h, **Almasirad A**, Synthesis and docking of new pharmaceutical compounds approach to cancer treatment, *The 18<sup>th</sup> Iranian Pharmacy Student Seminar*, Tabriz, Iran, Iran, 15-17 October, 2014.
- **Almasirad A**, Assarzadeh MJ, Koopaii N, Nassiri Koopaei M, Tabei A , Ghasemi F, Amini M, Kebriaezadeh A, Synthesis and analgesic activity of novel phenoxybenzylidene aroylhydrazine derivatives, *The 2<sup>nd</sup> Seminar on The Role of Medical Basic Sciences on Health Promotion*, Tehran, Iran, 26-27 February, 2013.
- Bayat p, Vahdaniparast M, **Almasirad A**, Samiee –Sadr S, Amini M, Shafiee A, Synthesis of New 4-Thiazolidinone Derivatives of 2-Phenylthiobenzoic Acid as Potential Analgesic and Anti- Inflammatory Agents, *The 2<sup>nd</sup> Seminar on The Role of Medical Basic Sciences on Health Promotion*, Tehran, Iran, 26-27 February, 2013.
- Assarzadeh MJ, **Almasirad A**, Rezayat SA, Shafiee A, Amini M, Nassiri Koopaei N, r Nassiri Koopaei M, Synthesis and biological evaluation of new thiazolo[3,2-b][1,2,4]triazol-6(5H)-one derivatives as potent analgesic and Anti-inflammatory agents, *The 2<sup>nd</sup> Seminar on The Role of Medical Basic Sciences on Health Promotion*, Tehran, Iran, 26-27 February, 2013.

- Nassiri Koopaei M, **Almasirad A**, Meysami Azad F *et al*, Synthesis of 2-(phenylsulfonyl) benzoic acid arylhydrazone derivatives as potent analgesic agents, *The 2<sup>nd</sup> Seminar on The Role of Medical Basic Sciences on Health Promotion*, Tehran, Iran, 26-27 February, 2013.
- Ghadimi M, **Almasirad A**, Azizian H, Mirahmadi S, Shafiee A, Synthesis and docking studies of new 4-oxo-1,3-thiazolidine derivatives as potential anticonvulsant agents, *The 13<sup>th</sup> Iranian Conference of Pharmaceutical Sciences*, Isfahan, Iran, 4-6 September 2012.
- Rahimi M, **Almasirad A**, Mahboubi A, Khomami A, Tabei A, Foroumadi A, Shafiee A, Synthesis and in-vitro anti-bacterial activity of new thiazolidin-4-one, Derivatives, *The 13<sup>th</sup> Iranian Conference of Pharmaceutical Sciences*, Isfahan, Iran, 4-6 September 2012.
- Hadi E, **Almasirad A**, Ghasemi S, Shafiee A, Synthesis of new thiazolidinone derivatives of naproxen, *The 13<sup>th</sup> Iranian Conference of Pharmaceutical Sciences*, Isfahan, Iran, 4-6 September 2012.
- Abbasi A, Gholami R, **Almasirad A**, Nasiri M, Amini M, Shafiee A, Synthesis of new 2-phenoxy chalcone and Pyrazoline derivatives as potential analgesic and anti-inflammatory agents *The 16<sup>th</sup> Iranian Pharmaceutical Students Seminar*, Tehran university of medical sciences, Tehran, Iran, 14-16 October 2011.
- Gharachorloo N, **Almasirad A**, Abdollahi M, Shafiee A, Synthesis of New 2-aryl-4-Thiazolidinone derivatives of Mefnamic acid as non-ulcerogenic anti-inflammatory and analgesic agents, *The 16<sup>th</sup> Iranian Pharmaceutical Students Seminar*, Tehran university of medical sciences, Tehran, Iran, 14-16 October 2011.
- Tabei A, **Almasirad A**, Foroumadi A, Shafiee A, Synthesis of New 4-Thiazolidinone derivatives as potential antimicrobial agents, *The 16<sup>th</sup> Iranian Pharmaceutical Students Seminar*, Tehran university of medical sciences, Tehran, Iran, 14-16 October 2011.
- Nasiri M, **Almasirad A**, Rezayat S.M, Assrazadeh M.J, Nassiri N, Amini M, Shafiee A, Synthesis and analgesic activity of novel hydrazide hydrazone derivatives, *The 16<sup>th</sup> Iranian Pharmaceutical Students Seminar*, Tehran university of medical sciences, Tehran, Iran, 14-16 October 2011.
- Badrzadeh A, **Almasirad A**, Abdollahi M, Shafiee A, Synthesis of New 4-thiazolidinone derivatives of mefenamic acid as nonulcerogenic antiinflammatory and analgesic agents, *The 16<sup>th</sup> Iranian Pharmaceutical Students Seminar*, Tehran university of medical sciences, Tehran, Iran, 14-16 October 2011.
- Vafaisani P, **Almasirad A**, Shafiee A, Synthesis of new thiazolotriazole derivatives of 2-(2-chlorophenoxy) benzoic acid as potential Analgesic and Anti-inflammatory

agents, , *The 15<sup>th</sup> Iranian chemistry congress*, Hamedan university, Hamedan, Iran, 3-5 september 2011.

- **Almasirad A**, Tajik M, Mousavi Z, Assarzadeh MJ, Shafiee A, Synthesis, Analgesic and anti-inflammatory activity of new methyl imidazolyl-1,3,4-oxadiazoles and 1,2,4-triazoles; *The 1<sup>st</sup> Seminar on The Role of Basic Sciences on Health Promotion*, Tehran, Iran, 8-9 March, 2011.
- **Almasirad A**, Nassiri Koopaie M, Rezayat SM, Shafiee A, Mortazavi SA, Nassiri Koopaie N, Assarzadeh MJ, Synthesis and Analgesic Activity of new 1,3-thiazoline-4-one Derivatives, *The 1<sup>st</sup> Seminar on The Role of Basic Sciences on Health Promotion*, Tehran, Iran, 8-9 March, 2011.
- **Almasirad A**, Nassiri Koopaie M, Rezayat SM, Shafiee A, Mortazavi SA, Nassiri Koopaie N, Assarzadeh MJ, Synthesis of new 5-amino-1,3-thiazoline-2-thiones as potential antimycobacterial agents, *The 1<sup>st</sup> Seminar on The Role of Basic Sciences on Health Promotion*, Tehran, Iran, 8-9 March, 2011.
- Shahmirzadi M, **Almasirad A**, Shafiee A, Synthesis of N-ary hydrazone derivatives of 2-(phenylsulfinyl) benzoic acid as potential analgesic agents; *The 14<sup>th</sup> Iranian Pharmacy Students Seminar*, Ahvaz, Iran, 12-14 February, 2009.
- Zebardast T, Zarghi A, **Almasirad A**, Design and synthesis of new 2-substituted-5-(2-benzyloxyphenylmethyl)-1,3,4-oxadiazole derivatives as AMPA receptor antagonists, *The 11<sup>th</sup> Iranian Conference of Pharmaceutical Sciences*, Kerman university of medical sciences, Kerman, Iran, 23 to 26 August, 2008.
- **Almasirad A**, Shafiee A, Samiee-Sadr S. Synthesis of N-ary hydrazone derivatives of 2-phenylthio benzoic acid as potential analgesic agents; *The 13<sup>th</sup> Iranian Pharmacy Students Seminar*, Tabriz, Iran, 22-24 October, 2007.
- Tajic M, **Almasirad A**, Shafiee A. Synthesis of N-acylhydrazone derivatives of mefenamic acid and naproxen as potential inhibitors of Cox and 5-Lo; *The 9<sup>th</sup> Iranian Pharmacy Students Seminar*, Tabriz, Iran, 28-30 May, 2003.
- **Almasirad A**, Tabatabai SA, Shafiee A. Synthesis of N-{5-[2-(2-Fluorophenoxy)phenyl]-1,3,4-oxadiazole-2-yl} – N'-phenyl urea derivatives as potential CCK antagonists; *The 8<sup>th</sup> Iranian Conference of Pharmaceutical Sciences*, Shiraz university, Faculty of Pharmacy, Shiraz, Iran, 26-29 August, 2002.
- Ziaee V, Bazargani YT, Jalalizadeh H, Iranshahi M, **Almasirad A**, Shafiee A. Synthesis of vasicinone as an alkaloid of Peganum Harmala; *The 8<sup>th</sup> Iranian Pharmacy Students Seminar*, Kerman, Iran, 12-14 March, 2002.
- **Almasirad A**, Sheikhha M, Shafiee A. Synthesis of N-{5-[2-(2-Nitro-Phenoxy)phenyl]-1,3,4-oxadiazole-2-yl}-N'-phenyl urea derivatives as potential CCK antagonists; *The 7<sup>th</sup> Iranian Conference of Pharmaceutical Sciences*, Mashad university, Faculty of Pharmacy, Mashad, Iran, 26-28 August, 2000.

- **Almasirad A**, Peiravian F, Hajakhoondi A. Pigment extraction and quantification of Iranian *Carthamus Tinctorius* ; *The 3<sup>th</sup> Iranian Pharmacy Students Seminar*, Tehran, Iran, 22-24 October, 1996.

### **Projects:**

- Synthesis and Biological Evaluation of new Thiadiazole Derivatives as Cytotoxic Agents  
[Pharmaceutical Sciences Branch, Islamic Azad University, 2015]
- Synthesis, analgesic and anti-inflammatory activities of new methyl-imidazolyl-,3,4-oxadiazoles and 1,2,4-triazoles  
[Pharmaceutical Sciences Branch, Islamic Azad University, 2014]
- Synthesis, antituberculosis, anticancer, analgesic and anti-inflammatory activity of new 2-(phenylthio) benzoic acid arylhydrazones [Iran National Science Foundation (INSF), 2013]
- Synthesis, analgesic and anti-inflammatory activity of new oxadiazole, triazole and thiadiazole derivatives.  
[Iran National Science Foundation (INSF), 2007]
- Synthesis of N-acylhydrazone derivatives of 2-Phenoxybenzoic acid as potential Cox and 5-Lo inhibitors.  
[Medical Sciences Research Center of Iran, 2004]
- Laboratory scale synthesis of oxazepam  
[R &D center of Tolidaru Pharmaceutical Company, 2000]

### **Professional Experiences:**

- Head of Department of medicinal chemistry, pharmaceutical sciences branch, Islamic Azad University, 2008-present.
- Faculty member (Assistant Professor) of pharmaceutical sciences branch, Islamic Azad University, 2006-2012.
- Faculty member (Associate Professor) of pharmaceutical sciences branch, Islamic Azad University, 2012-present.
- Consultant Pharmacist, R & D Center of Tolidaru Pharmaceutical Company since 1998-2004.

### **Courses Taught:**

- Instrumental analysis methods in pharmaceutical sciences branch, Islamic Azad University, 2007-present
- Practical inorganic Chemistry in pharmaceutical sciences branch, Islamic Azad University, 2007-2008.
- Medicinal Chemistry in pharmaceutical sciences branch, Islamic Azad University, 2006-present.
- Practical organic Chemistry in pharmaceutical sciences branch, Islamic Azad University, 2006-present
- Lecturer of practical analytical chemistry and practical inorganic chemistry and assistant lecturer of inorganic chemistry, Faculty of Pharmacy, Tehran University of Medical Sciences, 1997-1998.

### **Supervisor and Consultant:**

- Pharm.D Thesis (53 items)
- M.S Thesis (4 items)

### **Editorial Board & Reviewing Activities:**

- Editorial Board Member of Journal of Pharmaceutical and Health Sciences, Iran.
- Reviewer for Medicinal Chemistry Research, Springer, USA.
- Reviewer for Archive der Pharmazie, Willey, Germany.
- Reviewer for Iranian Journal of Pharmaceutical Research, Iran.
- Reviewer for Bioorganic Chemistry

### **Honors:**

- Islamic azad university award as the best university lecturer in the 2nd loghaman hakim medical sciences festival, 2015.
- Shiraz university award for presentation of an article in 8<sup>th</sup> Iranian conference of pharmaceutical sciences, Shiraz University, Faculty of Pharmacy, Shiraz, Iran 2002.
- Fifth rank holder among all Iranian pharmacy students (passed university entrance examination in 1992) in basic sciences examination, 1995.
- Third rank holder in Ph.D comprehensive examination, Sep 1999.
- Second rank holder among graduated students from faculty of pharmacy, Tehran University of Medical Sciences, 1997.



### **Research Interests and Skills:**

- Design and synthesis of new pharmaceutical substances and improvement of previous methods for preparing drugs.
- Spectroscopic analysis of pharmaceuticals by NMR, FT – IR, UV, HPLC and GC-Mass methods.
- Chemoinformatic, Q-SAR Studies, Molecular Docking,
- Computer: Windows XP, Word, Power Point, Internet, graph Pad Prism, SPSS, Hyperchem , Chem Office, Chem Sketch, Autodock, Autodock Vina, iGemDock, Dragon, Padel, PyRx, Autodock Tools, Viewer Lite, LigPlus, Open Babel, .....
- Languages: Persian, English