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EDUCATION

1996-2001: PhD Radiopharmacy, School of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran.

1983-1988: Pharm.D. School of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran.

EXPERIENCES

2020: Full Professor, School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

2013-2020: Associate Professor, School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

2009-2013: Assistant Professor, School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

2006-2008: Research Associate, Oncologic Imaging, Edmonton PET Centre, Cross Cancer Institute, Edmonton, Canada.

2004-2006: Research Associate, School of Pharmacy, University of Alberta, Edmonton, Canada.

2001-2004: Assistant Professor, School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

1992-2001: Lecturer, School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

1988-1992 : Pharmacy Manager, In charge of Technical affairs

Favorite research topics:

- Radioligand receptor binding assay
- Preparation and characterization of Monoclonal antibodies
- Preparation and quality control of PET Radiopharmaceuticals
- Radiolabeling of proteins, peptides, antibodies, and nucleotides with different radionuclides such as 99m-Tc, 125-I, 111-In, 18-F
- Evaluation of Pharmaceutical formulations with 99m-Tc, 125-I, 111-In, 18-F

Research projects:

Carrying out more than 20 research projects in collaboration with Shahid Beheshti University of Medical Sciences, Tehran University of Medical Sciences, Iran National Science Foundation, NIMAD Institute, and the International Atomic Energy Agency

Thesis:

Supervision of more than 30 dissertations (Pharm.D and Ph.D.)

Books:

- An educational booklet for patients receiving radioactive iodine, the patient's family and companions. Spring 2013.
- Iran National Formulary, 6th and 7th editions, 2013 and 2016
- Radiopeptides from design to clinic, 2020

Executive records:

- Head of Pharmaceutical Chemistry and Radiopharmacy department
- Member of the Board of Examiners and Evaluation of Radiopharmacy
- Member of Iran Pharmacopoeia Committee
- Member of EDO
- Editor-in-chief of IJPR
- Member of the Committee for Technology and Innovations of Medical Sciences (NIMAD)

Scientific and trade unions

- Member of Medical Council of I.R.IRAN
- Member of Iranian Association of Pharmaceutical Scientists (IRANAPPS)
- Society of Radiopharmaceutical Sciences

- Canadian Association of Radiopharmaceutical Sciences
- Canadian Nuclear medicine association

PUBLICATIONS

- 1- Anton Amadeus Hörmann, Maximilian Klingler, Maliheh Rezaeianpour, Nikolas Hörmann, Ronald Gust, **Soraya Shahhosseini**, Elisabeth von Guggenberg. Initial in vitro and in vivo evaluation of a novel CCK2R targeting peptide analog labeled with lutetium-177. *Molecules*. 2020. accepted
- 2- Mahsa Toolabi, Mona Khoramjouy, Ayoub Aghcheli, Adileh Ayati, Setareh Moghimi, Loghman Firoozpour, **Soraya Shahhosseini**, Rouhollah Shojaei, Ali Asadipour, Kouros Divsalar, Mehrdad Faizi, Alireza Foroumadi. Synthesis and radioligand binding assay of 2,5-disubstituted thiadiazoles and evaluation of their anticonvulsant activities. *DPhG ARCHPHARM*. DOI:10.1002/ardp.202000066
- 3- Mona Mosayebnia, Maliheh Hajiramezanali, **Soraya Shahhosseini***. Radiolabeled peptides for molecular imaging of apoptosis. *Current Medicinal Chemistry*. 2020; 27:1-26.
- 4- Fatemeh Mehryab, Shahram Rabbani, **Soraya Shahhosseini**, Faezeh Shekari, Yousef Fatahi, Hossein Baharvand, Azadeh Haeri. Exosomes as a next-generation drug delivery system: An update on drug loading approaches, characterization, and clinical application challenges, *Acta Biomaterialia*. 2020; 113: 42-62.
- 5- Mona Mosayebnia, Zahra Hajimahdi, Davood Beiki, Sedigheh Rezaeianpour, Maliheh Hajiramezanali, Pedram Geramifar, Omid Sabzevari, Mohsen Amini, Dara Hatamabadi, **Soraya Shahhosseini***. Design, synthesis, radiolabeling and biological evaluation of new urea-based peptides targeting prostate specific membrane antigen. *Bioorganic Chemistry*. 2020. doi: <https://doi.org/10.1016/j.bioorg.2020.103743>.
- 6- Reza Mohammadi, Bahareh Shokri, Danial Shamshirian, Afshin Zarghi, **Soraya Shahhosseini***. Synthesis and Biological evaluation of RGD conjugated with Ketoprofen/Naproxen and radiolabeled with [^{99m}Tc] via N4(GGAG) for αvβ₃ integrin-targeted drug delivery. *DJPS*. 2019. DOI: [10.1007/s40199-019-00318-8](https://doi.org/10.1007/s40199-019-00318-8).
- 7- Bahareh Shokri, Afshin Zarghi, **Soraya Shahhosseini**, Farzad Kobarfard. Design, synthesis and biological evaluation of peptide-NSAID conjugation for targeted cancer therapy. *DPhG ARCHPHARM*. 2019;e1800379.
- 8- Rezaeianpour S, Mosayebnia M, Moghimi SA, Amidi S, Geramifar P, Kobarfard F, **Shahhosseini S***. [¹⁸F]FDG-labeled CGPRPPC peptide serving as a small thrombotic lesions probe including a comparison with [^{99m}Tc]-labeled form. *Cancer Biotherapy and Radiopharmaceuticals* 2019; DOI: 10.1089/cbr.2018.2515.

- 9- Mahsa Azami Movadeh, Bahram Daraei, **Soraya Shahhosseini**, Marjan Esfahanizadeh, Afshin Zarghi. Design, synthesis and biological evaluation of new pyrazino[1,2-a]benzimidazole derivatives as selective cyclooxygenase (COX-2) inhibitors. *DPHG ARCHPHARM*. 2019; 352(2):e1800256.
- 10- Sepideh Khoshbakht, Davood Beiki, Pedram Geramifar, Farzad Kobarfard, Omid Sabzevari, Mohsen Amini, Noushin Bolourchian, Danial Shamshirian, **Soraya Shahhosseini***. Design, synthesis, radiolabeling, and biological evaluation of three 18F-FDG-radiolabeled targeting peptides for the imaging of apoptosis. *Cancer Biotherapy and Radiopharmaceuticals*. 2019, DOI: 10.1089/cbr.2018.2709.
- 11- Maliheh Hajiramezanali, Fatemeh Atyabi, Mona Mosayebnia, Mehdi Akhlaghi, Parham Geramifar, Amir Reza Jalilian, Seyed Mohammad Mazidi, Hassan Yousefnia, **Soraya Shahhosseini**, Davood Beiki. 68-Ga-radiolabeled bombesin-conjugated to trimethyl chitosan-coated superparamagnetic nanoparticles for molecular imaging: preparation, characterization and biological evaluation. *International Journal of Nanomedicine*. 2019: 142591-2605.
- 12- Mosayebnia M, Hajrimezanali M, **Shahhosseini S**, Hajiagha Bozorgi A, Kobarfar F, Rezaeianpour S. Docking, synthesis, in-vitro evaluation, and optimization of reaction conditions for direct radiolabeling of CGPRPPC with technetium-99m through the GAGG sequence. *Nuclear Medicine Communication* 2018; 39(11):976-982.
- 13- Ghassemi S, Haeri A, **Shahhosseini S**, Dadashzadeh S. Labrasol-Enriched Nanoliposomal Formulation: Novel Approach to Improve Oral Absorption of Water-Insoluble Drug, Carvedilol. *AAPS PharmSciTech* 2018;19(7):2961-2970.
- 14- Nowroozi F, Dadashzadeh S, Soleimanjahi H, Haeri A, **Shahhosseini S**, Javidi J, Karimi H. Theranostic niosomes for direct intratumoral injection: marked enhancement in tumor retention and anticancer efficacy. *Nanomedicine (Lond)* 2018; 13(17):2201-2219.
- 15- Farzaneh S, **Shahhosseini S**, Arefi H, Daraei B, Esfahanizadeh M, Zarghi A. Design, synthesis and biological evaluation of new 1,3-diphenyl-3-(phenylamino)propan-1-ones as selective cyclooxygenase (COX-2) inhibitors. *Medicinal Chemistry* 2018; 14(7):652-659.
- 16- Almaci A, **Shahhosseini S***, Haeri A, Johari Daha F, Geramifar P, Dadashzadeh S. Radiolabeling of preformed niosomes with ^{99m}Tc: In vitro stability, biodistribution, and in vivo performance. *AAPS PharmSciTech* 2018;19(8):3859-3870.
- 17- Mona Mosayebnia, Sedigheh Rezaeianpour, Pedram Rikhtechi, Zahra Hajimahdi, Davood Beiki, Farzad Kobarfard, Omid Sabzevari, Mohsen Amini, Khosrou Abdi, **Soraya Shahhosseini***. Novel and efficient method for solid phase synthesis of urea-

- containing peptides targeting prostate specific membrane antigen (PSMA) in comparison with current methods. *IJPR* 2018; 17(3): 917-926.
- 18- Shabnam Farzaneh, Elnaz Zainalzadeh, Bahram Daraei, **Soraya Shahhosseini**, Afshin Zarghi. New Ferrocene compounds as selective cyclooxygenase (COX-2) inhibitors: Design, synthesis, cytotoxicity and enzyme-inhibitory activity. *Anti-cancer Agents in Medicinal Chemistry*, 2018;18(2): 295-301.
- 19- Bahareh Shokri, Afshin Zarghi, **Soraya Shahhosseini**, Reza Mohammadi, Farzad Kobarfard. Design, Synthesis, and Biological Evaluation of ketoprofen conjugated to RGD/NGR for targeted cancer therapy. *IJPR* 2018;17(4):1297-1305.
- 20- Mohammad Ali Ahmaditaba, Mohammad Hassan Houshdar Tehrani, Afshin Zarghi, **Soraya Shahhosseini**, Bahram Daraei. Design, Synthesis, and Biological Evaluation of Novel Peptide-like analogues as Selective COX-2 Inhibitors. *IJPR* 2018; 17(1): 87-92.
- 21- Solmaz Agha Amiri , Najmeh Zarei , Somayeh Enayati , Mohammad Azizi , Vahid Khalaj and **Soraya Shahhosseini***. Expression Optimization of Anti-CD22 scFv-Apoptin Fusion Protein Using Experimental Design Methodology. *Iranian Biomedical Journal* 2018; 22(1): 66-69.
- 22- Mohammad A. Ahmaditaba, **Soraya Shahhosseini**, Bahram Daraei, Afshin Zarghi, and Mohammad H. Houshdar Tehrani. Design, Synthesis, and Biological Evaluation of New Peptide Analogues as Selective COX-2 Inhibitors. *Arch. Pharm. Chem. Life Sci.* 2017, 350, e1700158.
- 23- Siyavash Rahmani , **Soraya Shahhosseini**, Reza Mohamadia , Mostafa Vojdani. Synthesis, Quality Control and Stability Studies of 2-[¹⁸F]Fluoro-2-Deoxy-DGlucose(¹⁸F-FDG) at Different Conditions of Temperature by Physicochemical and Microbiological Assays. *IJPR*, 2017; 16(2): 602-610.
- 24- Solmaz Agha Amiri; **Soraya Shahhosseini**; Najmeh Zarei; Dorsa Khorasanizadeh; Elahe Aminollahi; Faegheh Rezaie; Mehryar Zargari; Mohammad Azizi; Vahid Khalaj. A novel anti-CD22 scFv-apoptin fusion protein induces apoptosis in malignant B-cells. *Applied and industrial microbiology and biotechnology (AMB Express)* 2017; 7:112.
- 25- Jafar Nikzad, **Soraya Shahhosseini**, Maryam Tabarzad, Nastaran Nafisi-Varcheh, Maryam Torshabi. Simultaneous detection of bovine and porcine DNA in pharmaceutical gelatin capsules by duplex PCR assay for halal authentication. *DARU*, 2017; 25 (3): 1-11.
- 26- Fariba Johari Doha, Siyavash Rahmani, Samira Rasaneh, Zahra Sheikholislam, **Soraya Shahhosseini***. Development of DOTA-Rituximab to be labeled with ⁹⁰Y for radioimmunotherapy of B-cell Non-Hodgkin Lymphoma. *IJPR*. 2017; 16(2): 619-629.

- 27- Sedigheh Rezaeianpour, Atefeh Hajiagha Bozorgi, Abolghasem Moghimi, Ameneh Almasi, Saeed Balalaie, Sorour Ramezanpour, Sanaz Nasoohi, Seyed Mohammad Mazidi, Parham Geramifar, Ahmad Bitarafan-Rajabi, **Soraya Shahhosseini***. Synthesis and biological evaluation of cyclic [^{99m}Tc]-HYNIC-CGPRPPC as a fibrin-binding peptide for molecular imaging of thrombosis and its comparison with [^{99m}Tc]-HYNIC-GPRPP. *Molecular Imaging and Biology*. 2017; 19:256-264.
- 28- Sepideh Khoshbakht, Davood Beiki, Pedram Geramifar, Farzad Kobarfard, Omid Sabzevari, Mohsen Amini, **Soraya Shahhosseini**. ¹⁸FDG-labeled LIKKPF: a PET tracer for apoptosis imaging. *Journal of Radioanalytical and Nuclear Chemistry*. 2016; 310: 413-421.
- 29- Sepideh Khoshbakht, Davood Beiki, Parham Geramifar, Farzad Kobarfard, Omid sabzevari, Mohsen Amini, Faramarz Mehrnejad, **Soraya Shahhosseini***. Synthesis, radiolabeling, and biological evaluation of Peptide LIKKPF functionalized with HYNIC as apoptosis imaging agent. *IJPR*. 2016; 15 (2): 415-424.
- 30- Sepideh Khoshbakht, Farzad Kobarfard, Davood Beiki, Omid sabzevari, Mohsen Amini, Faramarz Mehrnejad, Kimia Tabib, **Soraya Shahhosseini***. HYNIC a Bifunctional Prosthetic Group for the Labelling of Peptides with ^{99m}Tc and ¹⁸FDG. *Journal of Radioanalytical and Nuclear Chemistry*. 2016; 307 (2): 1125-1134.
- 31- Faizi M, Dabirian S, Tajali H, Ahmadi F, Tabatabaei SA, Ahmadi F, Rezaee Zavareh E, **Shahhosseini S**, Tabatabai SA. Novel agonists of benzodiazepine receptors: Design, synthesis, binding assay and pharmacological evaluation of 1,2,4-triazolo [1,5-a]pyrimidinone and 3-amino-1,2,4-triazole derivatives. *Bioorganic and Medicinal Chemistry*. 2015; 23: 480-487.
- 32- Elham Rezaee Zavareh, Mahdi Hedayati, Laleh Hoghooghi Rad, Azin Kiani, **Soraya Shahhosseini**, Mehrdad Faizi and Sayyed Abbas Tabatabai. Design, Synthesis and Biological Evaluation of Some Oxadiazole Derivatives as Novel Amide-Based Inhibitors of Soluble Epoxide Hydrolase. *Letters in Drug Design & Discovery*. 2014; 11: 721-730.
- 33- Tabarzad M, Kazemi B, Vahidi H, Aboofazeli R, **Shahhosseini S**, Nafici-Varcheh N. Challenges to design and develop of DNA aptamers for protein targets. 1.optimization of asymmetric PCR for generation of a single stranded DNA library. *IJPR*. 2014; 13 (supplement): 133-141.
- 34- Kakhki S, **Shahhosseini S**, Zarghi A. Design, synthesis and cytotoxicity of new 2-aryl-5, 6-dihydropyrrolo[2, 1-a]isoquinoline derivatives as topoisomerase inhibitors. *IJPR*. 2014; 13 (supplement): 71-77.

- 35- Zavareh ER, Hdayati M, Rad LH, **Shahhosseini S**, Faizi M, Tabatabaei SA. Design, synthesis and biological evaluation of 4-benzamidobenzoic acid hydrazide derivatives as novel soluble epoxide hydrolase inhibitors. . *IJPR*. 2014; 13 (supplement): 51-59.
- 36- Mashayekh S, Rahmanipour N, Mahmoodi B, Ahmadi F, Motaharian D, **Shahhosseini S**, Shafaroodi H, Banafshe HR, Shafiee A, Navidpour L. Synthesis, receptor affinity and effect on pentylenetetrazole-induced seizure threshold of novel benzodiazepine analogues: 3-substituted 5-(2-phenoxybenzyl)-4H-1,2,4-triazoles and 2-amino-5-(phenoxybenzyl)-1,3,4-oxadiazoles. *Bioorganic and Medicinal chemistry*. 2014; 22: 1929-1937.
- 37- Ahmadi F, Dabirian S, Faizi M, Tabatabaei SA, Beiki D, **Shahhosseini S***. Optimum conditions of radioligand receptor binding assay of ligands of Benzodiazepine receptors. *IJPR*. 2014; 13 (supplement): 79-86.
- 38- Ahmadi F, Faizi M, Tabatabaei SA, Beiki D, **Shahhosseini S***. Comparison [³H]-Flumazenil binding parameters in rat cortical membrane using different separation methods, filtration and centrifugation. *Nuclear Medicine and Biology*. 2013; 40: 896-900.
- 39- Sheikholislam Z, Soleimani Z, Moghimi A, **Shahhosseini S***. A convenient simple method for synthesis of meta iodobenzylguanidine (MIBG). *IJPR*. 2013; 12 (4): 729-733.
- 40- Koslowsky I. **Shahhosseini S**, Mirzayans R, Murray D, Mercer J. Evaluation of an ¹⁸F-labeled oligonucleotide probe targeting p21 (WAF1) transcriptional changes in human tumor cells. *Oncology research*. 2011; 19 (6): 265-274.
- 41- **Shahhosseini, S***. PET Radiopharmaceuticals. *IJPR*. 2011; 10 (1):1-2.
- 42- Von Guggenburg, E, **Shahhosseini S**, Koslowsky, I, Lavasanifar A, Murray D, Mercer J. In vitro characterization of two novel biodegradable vectors for the delivery of radiolabeled antisense oligonucleotides. *Cancer Biotherapy and radiopharmaceuticals*. 2010; 25 (6): 723-732.
- 43- Von Guggenburg, E., Sader, JA., Wilson, JS., **Shahhosseini, S.**, Koslowsky, I., Wuest, F., Mercer, JR. Automated radiosynthesis of an ¹⁸F-labelled pyridine-based alkylating agent for high yield oligonucleotide conjugation. *Applied Radiation and Isotopes*. 2009; 67(9), pp 1670-1675.
- 44- Magee, WC., **Shahhosseini, S.**, James Lin, Y-C., Suresh, MR., Evans, DH. Production and characterization of antibodies against vaccinia virus DNA polymerase. *Journal of Virological Methods*, 2009; 161(1), pp 44-51.
- 45- Koslowsky, I., **Shahhosseini, S.**, Wilson, J., Mercer, J. Automated radiosynthesis of N-(4-[¹⁸F]fluorobenzyl)-2-bromoacetamide: an F-18 labeled reagent for the prosthetic radiolabeling of oligonucleotides. *Journal of Labelled Compounds & Radiopharmaceuticals*. 2008; 51: 325-356.

- 46- Honary, S., Ebrahimi, P., Naghibi, F., Mosaddegh, M., **Shahhosseini, S.** Study on the simultaneous determination of Pb and Cd in some commercial medicinal plants by both atomic absorption and voltametry methods. *Analytical Letters*, 2007; 40:12, 2405-2414.
- 47- **Shahhosseini, S.**, Das, D., Qiu X., Feldmann H., Jones SM., Suresh MR. Production and characterization of monoclonal antibodies against different epitopes of Ebola virus antigens. *J Virol Methods*, 2007; 143, 29-37.
- 48- **Shahhosseini, S.**, Guttikonda, S., Bhatnagar, P., Suresh, M R. Production and characterization of monoclonal antibodies against Shope fibroma virus superoxide dismutase and glutathione-s-transferase. *Journal of Pharmacy & Pharmaceutical Sciences*, 2006; 9(2): 165-168.
- 49- Avadi , M R., Ghassemi, A M., Sadeghi, A M M., Beiki, D., Akbarzadeh, A., Ebrahimnejad, P., **Shahhosseini, S.**, Bayati, K H., Rafiee-Tehrani, M. Gamma-scintigraphic evaluation of enteric-coated capsules containing chitosan-brilliant blue gel beads as hydrophilic model for colon drug delivery. *Journal of Drug Delivery Science & Technology*. 2005, Vol 15 (5): 383-387.
- 50- **Shahhosseini, S***, Beiki, D., Dadashzadeh, S., Eftekhari, M., Tayebi, H., Moosazadeh, G. Radiation dose rate and urinary activity in patients with differentiated thyroid carcinoma treated with radioiodine-131; a survey in Iranian population. *Hellenic Journal of Nuclear Medicine*, 2004; 7(3): 192-194.
- 51- Beiki, D., **Shahhosseini, S***, Dadashzadeh, S., Eftekhari, M., Tayebi, H., Moosazadeh, G. Determination of radiation dose rates and urinary activity of patients received sodium iodide-131 for treatment of differentiated thyroid carcinoma. *The Iranian Journal of Nuclear Medicine*, 2004; 21:1-13.
- 52- **Shahhosseini, S***, Beiki, D., Eftekhari, M. Gamma Scintigraphy in the evaluation of drug delivery systems (review article). *The Iranian Journal of Nuclear Medicine*, Summer 2003; 20:21-33.
- 53- Beiki, D., **Shahhosseini, S***, Eftekhari, M., Takavar, A., Fard-Esfahani, A. Contamination monitoring of Na¹³¹I levels in therapy unit of research institute for nuclear medicine, Tehran University of Medical Sciences by indirect method (wipe test) *The Iranian Journal of Nuclear Medicine*, Winter 2003; 19: 9-16.
- 54- **Shahhosseini, S***, Babaei, M. H., Najafi, R. Tissue distribution of ¹²⁵I-human nonspecific polyclonal IgG in normal and induced inflammation mice. *Iranian Journal of Pharmaceutical Research*, 2002; 1(1): 55-59.
- 55- **Shahhosseini, S***, Farshidfar, G. R. Najafi, R., Introduction of new derivatives of biotin and DTPA for labeling of antibodies with ¹¹¹In to detect malignant tumors. *The Iranian Journal of Nuclear Medicine*, Summer 2002; 18: 29-35.

- 56- Beiki, D., **Shahhosseini, S***, Khalaj, A., Eftekhari, M. Increased selectivity in inflammatory site identification via labelling of IgG with N-succinimidyl-4- 125 Iiodobenzoate. *Journal of Labelled Compounds & Radiopharmaceuticals*. 2002; 45 (11): 927-934.
- 57- Naghibi, F., Tabatabai-Yazdi, M., **Shahhosseini, S**. Preparation of testosterone using microbial metabolite of cholesterol. *Daru, Journal of Faculty of Pharmacy, Tehran University of Medical Sciences*. 2002; 10 (2): 70-73.
- 58- **Shahhosseini, S***, Hoshdar Tehrani, M H., Hajiashrafi, A., Soleimani, Z. Synthesis of Gemfibrozil. *Pejouhandeh*, winter 2001-02; Vol 6, No 5(25): 437-440.
- 59- **Shahhosseini, S***, Hadizad, T., Babaei, M. H., Najafi, R. Comparison of biodistribution of 111 In-tropolone leukocytes and 125 I-human nonspecific polyclonal IgG in normal and inflammation bearing mice for detection of inflammation. *Daru, Journal of Faculty of Pharmacy, Tehran University of Medical Sciences*. 2001; 9 (3&4): 9-17.
- 60- **Shahhosseini, S***, Najafi, R., Farshidfar, G. R. Preparation of 111 In- DTPA Complex, *The Iranian Journal of Nuclear Medicine*, Winter & Spring 2000; 12 & 13: 43-47.
- 61- Babaiee, M. H., **Shahhosseini, S.**, Najafi, R. Distribution of 125 I-IgG in Normal and Induced Inflammation Mice, *The Iranian Journal of Nuclear Medicine*, Winter & Summer 1999; 10 & 11: 42-47.
- 62- Shafiee, A., **Shahhosseini, S**. Nitroimidazoles V (1). Synthesis of 1 methyl-2(2-methyl-4-thiazolyl) nitriimidazoles., *J. Heterocyclic Chem* 1989; 26(6): 1927-9.