

Curriculum Vitae

Name: Dr. Hassan Sadraei

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PERSONAL INFORMATION

Date of Birth: 21st March 1964

Place of Birth and Nationality: Golpaygun (Iran), Iranian.

Marital Status: Married with three children.

EDUCATION

School Education: High School Diploma (1982), Iran

Collage Education: A-Levels (1984-1986)

Bournville Collage of Further Education, Birmingham, England.

University Education:

B.Sc. in Pharmacology (1986-1989), Victoria University of Manchester, England.

M.Sc. in Neuropharmacology (1989-1990), University of Bristol, England.

Ph.D. in Pharmacology (1991-1994), University of Leeds, England.

GRANTS AND FELLOWSHIPS

Date, Name, Significant info., Amount

RESEARCH EXPERIENCE

Drug discovery and development.

Smooth and Cardiac Muscles Pharmacology.

Contraction studies.

K- and Ca-currents studies.

TEACHING EXPERIENCE

Lecturer in Pharmacology (Since 1995)

Department of Pharmacology,

Isfahan University of Medical Sciences (Iran)

RELEVANT WORK EXPERIENCE

UNIVERSITY SERVICE

Dates, University/organization, Description

PUBLICATIONS

کتاب:

۱- فارماکولوژی پایه (Basic Pharmacology)

۲- کاربرد بالینی داروها

Papers:

- 1- Sadraei, H., Downing, S.J. & Hollingsworth, M. Cromakalim, RP49356 and rat uterus in vivo-antagonism by glibenclamide. Br. J. Pharmacol., 1989, 98. 887p.
- 2- Piper, I., Minshall, S., Downing, S.J., Hollingsworth, M. & Sadraei, H. Effects of several potassium channel opener and glibenclamide on the uterus of rat. Br. J. Pharmacol., 1990. 101, 901-907.
- 3- Sadraei, H. Large, B.J. & Beech, D.J. Potassium channel and calcium channel currents and their inhibition by glibenclamide. Br. J. Pharmacol., 1994, 112, 536p.
- 4- Sadraei, H. Large, B.J. & Hughes, I.E. Absence of pre-synaptic α_2 -adrenoceptors on noradrenergic nerves of rat seminal vesicle. Br. J. Pharmacol., 1994, 113, 102p.
- 5- Sadraei, H. & Beech, D.J. Ionic currents and inhibitory effects of glibenclamide in seminal vesicle smooth muscle cells. Br. J. Pharmacol., 1995, 115, 1447-1454.
- 6- Sadraei, H. Large, B.J. & Hughes, I.E. Mechanism involved in electrically induced responses of rat seminal vesicle. J. Pharm. Pharmacol., 1995. 47, 665-668.
- 7- Sadraei, H. & Hajhashemi, V. Relaxant effect of ketotifen on rat isolated bladder contractions. Br. J. Pharmacol., 2002, 135, 243p.
- 8- Sadraei, H. & Hajhashemi, V. Inhibitory effect of ketotifen on contraction of rat isolated bladder. Med. J. I.R.I. 1999. 13(2), 151-155.
- 9- Gannadi, A., Hajhashemi, V., Sadraei, H., & Mohseni, M. Composition of the essential oil *Satureja hortensis* L. grown in Kashan. Iranian J. Basic Med. Sci., 1999. 2(3), 166-169.
- 10- Hajhashemi, V., Sadraei, H., Ghannadi, A.R. & Mohseni M. Antispasmodic and antidiarrhoeal effect of *Satureja hortensis* L. essential oil. J. Ethnopharmacol., 2000. 71, 187-192.
- 11- Sadraei, H., Hajhashemi, V., Ghannadi, A.R. & Mohseni M. Antispasmodic antidiarrhoeal effect of *Teucrium polium* L. essential oil. Med. J. I.R.I. 2001, 14(4), 355-358.

- 12- Sadraei, H., Asghari, G.R., Hajhashemi, V., Kolagar, A. & Ebrahimi, M. Spasmolytic activity of essential oil and various extracts of *Freula gummosa* on ileum contractions. *Phytomedicine*, 2001. 8(5), 370-376.
- 13- Sadraei, H., Asghari, G., Hekmatti, A.A. Relaxant effect of alkaloid, flavonoid and saponin fractions of *Pycnocycla spinosa* on rat isolated ileum. *J. Physiol.* 2002, 544P, 111P.
- 14- Asghari G, Sajjadi E, Sadrari H, Yaghobi Kh. Essential oil of *Echinophora platyloba* DC. *Iranian J Pharm Res.* 2003; 185-186.
- 15- Sadraei, H., Ghannadi, A. Malekshahi, K. Relaxant effect of essential oil of *Melissa officinalis* and citral on rat ileum contractions. *Fitoterapia*. 2003 Jul;74(5):445-52.
- 16- Sadraei, H., Ghannadi, A. Malekshahi, K. Composition of essential oil of *assa-foetida* and its spasmolytic action. *Saudi Pharm J.* 2003, 11(3); 136-140.
- 17- Sadraei, H., Asghari, G. Naddafi, A. Relaxant effect of essential oil and hydro-alcoholic extract of *Pycnocycla spinosa* Decne. & exBoiss on ileum contractions. *Phytother Res.* 2003 Jun;17(6):645-649.
- 18- Sadraei, H., Asghari, G., Hekmatti, A.A. Antispasmodic effect of three fractions of hydroalcoholic extract of *Pycnocycla spinosa*. *J Ethnopharmacol.* 2003 Jun;86(2-3):187-190.
- 19- Sadraei, H.; Ghannadi, A.; Takei-bavani M. Effects of *Zataria multiflora* and *Carum carvi* essential oils and hydroalcoholic extracts of *Passiflora incarnata*, *Berberis integerrima* and *Crocus sativus* on rat isolated uterus contractions. *Int. J. Aromather.* 2003 13(2/3), 121-127.
- 20- Sadraei H, Asghari G, Arabzadah A. Effect of hydroalcoholic extract of *Pycnocycla spinosa* on rat isolated bladder contraction. *Iranian J Pharm Res* 2004; 4: 237-241.
- 21- Varshosaz J, Sadraei H, Alinagari R. Nasal delivery of insulin using chitosan microspheres. *J Microencapsulation* (2004) 21(7): 761-774.
- 22- Varshosaz J, Sadraei H, Heidari A. Nasal delivery of insulin using bioadhesive chitosan gels. *Drug delivery.* 2006; 13: 31-38.
- 23- Sadraei H, Asghari G, Hajhashemi V, Nezami M. Evalutaion of cardiovascular effect of *Pycnocycla spinosa* Decne. ExBoiss. Var. *spinosa* extracts in anaensthetized rat. *Daru* 2006: 14(1), 11-14.
- 24- Sadraei H, Asghari G, Zeinodin M. Evalutaion of systemic effect of *Pycnocycla spinosa* in mice using Irwin test. *Res Pharm Sci* 2006; 1: 22-29.
- 25- Sadraei H, Asghari G, Andisha M. Antispasmodic effect of *Pycnocycla spinosa* seed and aerial part extracts on rat ileum and uterus smooth muscle contractions. *Daru* 2008: 16(3), 160-163.
- 26- Sadraei H, Asghari G, Khazael. Relaxant effect of four fractions separated from alkaloid extract of *Pyconocycla spinosa* on rat isolated ileum. *Res Pharm Sci* 2008; 3(2): 73-78.
- 27- Palizban AA, Sadraei H, Asghari G, Zinalzadeh SJ. Assessment of the effect of *Pycnocycla spinosa* hydroalcoholic extract on rat renal function. *J Bio Sci.* 2008; 8(1): 205-208.
- 28- Sadraei H, Abtahi SR, Nematollahi M, Karbalaie K, Karamali F, Baharvand H, Naser-Esfahani MH. Assessment of potassium current in Royan B1 stem cell derived cardiomyocytes by patch-clamp technique. *Res Pharm. Sci.* 2009; 4(2): 85-97.

- 29- Sadraei H, Asghari G, Poorkhosravi R. Spasmolytic effect of root and aerial part extract of *Pycnocycla spinosa* on neuronal stimulation of rat ileum. *Res Pharm Sci*. 2011; 6(1): 43-50.
- 30- Sadraei H, Asghari G, Behzad S. Bioactivity guided isolation of spasmolytic components of *Pycnocycla spinosa* Decne ex Boiss. *Res Pharm Sci*. 2011; 6(2): 81-86.
- 31- Sadraei H, Asghari G, Shams M. Antidiarrheal action of hydroalcoholic extract of *Pycnocycla spinosa* in comaparison with loperamide and dicyclomine. *Iranian J Pharm Res*. 2011; 10(4): 835-841.
- 32- Sadraei H, Abtahi SR, Nematollahi M, Karbalaie K, Karamali F, Salamian A, Baharvand H, Naser-Esfahani MH. Functional expression of potassium channels in cardiomyocytes derived from embryonic stem cells. *Res Pharm Sci*. 2012; 7(1): 1-11.
- 33- Sadraei H, Sholooninia Y, Sajjadi SE, Ghadirian B. Antispasmodic effect of osthole and Prangos ferulacea extract on rat uterus smooth muscle motility. *Res Pharm Sci*. 2012; 7(3): 141-149.
- 34- Sadraei H, Asghari G, Emami S. Inhibitory effect of *Rosa damascena* Mill flower essential oil, genaniol and citronellol on rat ileum contraction. *Res Pharm Sci*. 2013; 8(1): 17-23.
- 35- Sadraei H, Sholooninia Y, Sajjadi SE, Mozafari M. Antispasmodic effects of Prangos ferulacea acetone extract and its main component osthole on ileum contraction. *Res Pharm Sci*. 2013; 8(2): 137-134.
- 36- Sadraei H, Asghari G, Emami S. Effect of *Rosa damascena* Mill. flower extract on rat ileum. *Res Pharm Sci*. 2013; 8(4): 277-284.
- 37- Sadraei H, Ghabaduab M, Asghari G, Azali N. Antidiarrheal activities of isovanillin, isoactovanillon and *Pycnocycla spinosa* Decne ex.Boiss extract in mice. *Res Pharm Sci*. 2014; 9(2): 83-89.
- 38- Sadraei H, Ghanadian M, Asghari G, Madadi E. Antispasmodic activities of isovanillin and isoactovanillon in comparison with *Pycnocycla spinosa* Decne ex.Boiss extract in rat ileum. *Res Pharm Sci*. 2014; (3):187-192.
- 39- Ghanadian M, Sadraei H, Yousuf S, Asghari G, Iqbal M, Jahed M. New diterpene polyester and phenolic compouds from *Pycnocycla spinosa* Decne ex.Boiss with relaxant effects on KCl-induced contraction of rat ileum. *Phytochem letters* 2014; 7: 57-61.
- 40- Sadraei H, Ghanadian M, Asghari G, Madadi E Azali N. Antispasmodic and antidiarrheal activities of 6-(4-hydroxy-3-methoxyphenyl)-hexanonic acid from *Pycnocycla spinosa* Decne ex.Boiss. *Res Pharm Sci* 2014; 9(4): 279-286.
- 41- Sadraei H, Ghanadian M, Asghari G, Sharifian R 3,7,14,15-pentaacetyl-5butanoyl-13-17-epoxy-8-myrsinene a novel compound isolated from *Pycnocyla spinosa* extract with potent antispasmodic and antidiarrheal properties. *Res Pharm Sci* 2015; 10(1): 39-45.
- 42- Sadraei H, Asghari G, Kasiri F. Comparison of antispasmodic effect of *Dracocephalum kotschy* essential oil, limonene and α -terpineol. *Res Pharm Sci* 2015; 10(2): 109-116.
- 43- Sadraei H, Asghari G, Farahnaki F. Assessment of hydroalcoholic extract of seeds and leaves of *Moringa peregrina* on ileum spasm. *Res Pharm Sci* 2015; 10(3): 252-258.

- 44- Minaiyan M, Sadraei H, Asghari G, Feili E. Anti-inflammatory effect of *Pycnocycla spinosa* extract and its component isoactovanillone on acetic acid induced colitis in rats. *Res Pharm Sci* 2015; 10(4): 345-355.
- 45- Sadraei H, Asghari G, Kasiri F. Antispasmodic effect of *Dracocephalum kotschy* hydroalcoholic extract on rat ileum contraction. *Res Pharm Sci* 2015; 10(5): 445-452.
- 46- Sadraei H, Asghari G, Motaqedi M. Evaluation of anti-spasmodic effect of *Peucedanum pastinacifolium* extracts on rat's ileum. *Res Pharm Sci* 2015; 10(6): 497-503.
- 47- Sadraei H, Asghari G, Alipour M. Anti-spasmodic assessment of hydroalcoholic extract and essential oil of aerial part of *Pycnocycla caespitosa* Boiss. & Hausskn on rat ileum contractions. *Res Pharm Sci* 2016; 11(1): 33-42.
- 48- Sadraei H, Asghari G, Jalali F. Assessment of hydroalcoholic and hexane extracts of *Rosa persica* Mich. flower on rat ileum spasm. *Res Pharm Sci* 2016; 11(2): 160-167.
- 49- Sadraei Hassan, Asghari Gholameza, Shahverdi Farzaneh. Antidiarrhoeal assessment of hydroalcoholic and hexane extracts of *Dracocephalum kotschy* Boiss. and apigenin in mice. *Res Pharm Sci* 2016; 11(3): 200-209.
- 50- Sadraei Hassan, Asghari Gholamreza, Alinejad Mahla. Comparison of antispasmodic effect of hydroalcoholic extract of *Dracocephalum kotschy* Boiss. in rat uterus and ileum. *Res Pharm Sci*. 2016; 11 (4): 284-292.
- 51- Sadraei Hassan, Ghanadian Mustafa, Cheraghi Zeinab. Spasmodic versus spasmolytic activities of *Euphorbia spinidens* extract on rat isolated uterus. *Res Pharm Sci*. 2016; 11(6): 491-496.
- 52- Tavakoli Naser, Ghanadian Mustafa, Asghari Gholamreza, Sadraei Hassan, Asgari-Borjlou Nadia, Tabakhian Majid. Development of a validated HPLC method for determination of an active component in *Pycnocycla spinosa* and tablets prepared from its extract. *J Herbmed Pharmacol*. 2017; 6(1): 37-42.
- 53- Ghanadian Mustafa, Sadraei Hassan, Asghari Gholamreza, Abbasi Zeinat. Bioassay-directed isolation of faltarindiol and isoacetovanillon from *Pycnocycla caespitosa* based on KCl induced contraction of in rat uterus smooth muscles. *Res Pharm Sci*. 2017; 12(3):249-256.
- 54- Sadraei Hassan, Asghari Golamreza, Khanabadi Mohammad, Minaiyan Mohsen. Anti-inflammatory effect of apigenin and hydroalcoholic extract of *Dracocephalum kotschy* on acetic acid-induced colitis in rats. *Res Pharm Sci*. 2017; 12(4): 322-329.
- 55- Sadraei H, Asghari G, Jamali H. Antidiarrheal action of *Zataria multiflora* hydroalcoholic and hexane extracts in mice. *J Herbmed Pharmacol*. 2018; 7(1): 22-28.
- 56- Sadraei H, Ghanadian M, Asghari G, Sekhavati N. Antispasmodic activity of apigenin and luteolin, two components of *Dracocephalum kotschy* extract, on rat ileum contraction. *J Herbmed Pharmacol*. 2018; 7(2): 100-105.
- 57- Sadraei H, Asghari G, Rahmati M. Study of antispasmodic activity of *Lavandula angustifolia* Mill hydroalcoholic extract on rat ileum. *J Herbmed Pharmacol*. 2019; 8(1): 56-63.

- 58- Sadraei H, Ghanadian M, Moazeni S. Inhibitory effect of hydroalcoholic and flavonoids extracts of *Dracocephalum kotschy*, and its components luteolin, apigenin and apigenin-4'-galactoside on intestinal transit in mice. *J Herbmed Pharmacol*. 2019; 8(1): 8-13.
- 59- Sadraei H, Ghanadian M, Asghari G, Gavahian A. Bronchodilator effect of apigenin and luteolin, two components of *Dracocephalum kotschy* on isolated rabbit trachea. *J Herbmed Pharmacol*. 2019; 8(4): 281-286.
- 60- Sadraei H, Asghari G, Khalili M. Effect of *Matricaria chamomilla* hydroalcoholic and flavonoids rich extracts on rat isolated uterus. *J Herbmed Pharmacol*. 2020;9(1):35-41.
- 61- Sadraei H, Sajjadi SE, Tarafdar A. Antispasmodic effect of hydroalcoholic and flavonoids extracts of *Dracocephalum kotschy* on rabbit bladder. *J Herbmed Pharmacol*. 2020;9(2): 145-152.
- 62- Sadraei H, Tabesh S. Relaxant effect of quercetin on rabbit isolated bladder smooth muscles contractions. *J Herbmed Pharmacol*. 2021;10(1): 61-67.
- 63- Ali Hosseini-Sharifabad, Hassan Sadraei, Mohammad Hashemnia, Seyed Ebrahim Sajjadi, Zahra Mirdamadi. Effect of hydroalcoholic and aqueous extracts of *Dracocephalum kotschy* on bleomycin induced pulmonary fibrosis. *J Herbmed Pharmacol*. 2021; 10(2): 209-217.
- 64- Minaiyan M, Sadraei H, Yousefi I, Sajjadi SE, Talebi A. Evaluation of the effect of hydroalcoholic and flavonoid-enriched extracts of *Dracocephalum kotschy* on indomethacin-induced gastric ulcer in rats. *Res Pharm Sci* 2021; 16(2): 141-152.
- 65- Sadraei H, Khakboo M, Asghari G. Spasmolytic effect of *Lonicera japonica* extracts on isolated uterus smooth muscle contractions. *J Herbmed Pharmacol*. 2021;10(3): 351-358.
- 66- Sadraei H, Ghasemi M, Saranji S. Evaluation of spasmolytic effects of naringenin on ileum contraction and intestinal charcoal meal transit: Involvement of ATP-sensitive K⁺ channels. *J Herbmed Pharmacol*. 2022;11(2):262-268.
- 67- Sadraei H, Rasouli-Amirabadi AH, Yegdanesh A, Tavakoli N. Bioassay standardization of drug dosage form prepared from hydroalcoholic extract of *Dracocephalum kotschy*. *J Herbmed Pharmacol*. 2022;11(3):435-443.
- 68- Sadraei H, Dastanian M, Yegdanesh A. Antispasmodic effects of hydroalcoholic, aqueous, chloroform, and ethyl acetate extracts of *Zaringia* on rabbit ileum smooth muscle contractions. *J Herbmed Pharmacol*. 2022;11(4):522-528. doi: 10.34172/jhp.2022.60.
- 69- Safary A, Zadhoush F, Yagdanesh A, Hosseini-Sharifabad A, Talebi A, Sadraei H. The Effect of *Dracocephalum Kotschy* Hydroalcoholic Extract on Biochemical and Hematological Parameters in Rat. *J Isfahan Med Sch* 2022; 40(669): 278-87.

Publication in Persian (Abstract in English):

- 1- Sadraei, et. al. Effect of ketotifen on rat isolated uterus contraction in compare with diazoxide and terbutaline. *Journal of Physiology and Pharmacology*. 1998, 3(2), 144-149.
- 2- Sadraei, H. Effects of drugs on autonomic responses of guinea-pig seminal vesicle smooth muscle *Journal of Shahrekord Medical School*. 1999, 1(3), 19-26.
- 3- Sadraei, H. Inhibitory effect of ketotifen on rat isolated uterus contractions in compare with a α 2-adrenoceptor agonist and an ATP-dependent K channel activator. *Journal of Shahrekord Medical School*. 1999, 1(4), 9-16.-
- 4- Sadraei, H. Effect of potassium and calcium blocking and ATP-sensitive potassium channel activators on seminal vesicle smooth muscle contraction. *Research in Medical Sciences*, 2000, 5(2), 30-37.
- 5- Sadraei, H. Central effects of baclofen, vigabatrin and midazolam on saccadic eye movements in man. *Journal of Shahrekord Medical School*, 2000, 2(1), 1-10.
- 6- Sadraei, H.; Hajhashemi V.; Ghasemi A. Inhibitory effect of ketotifen in comparison with terbutaline, diazoxide and diclofenac on spontaneous contractions of uterus in conscious rat. *Journal of Shahrekord Medical School*. 2001, 3(3), 24-32.
- 7- Sadraei, H.; Hajhashemi V. Study of the inhibitory effect of two different source of *Thymus vulgaris* essential oil on ileum contraction in compare with available clinically used drug preparation of thymus. *Journal of Shahrekord Medical School*. 2001, 2(2), 22-27.
- 8- Sadraei, H.; Asghari, G.; Yaghobei, KH. Effect of essential oil and hydroalcoholic extract of *Echinophoria platyloba* on rat isolated ileum. *Research in Medical Science*. 2003, 7(2) 150-155.
- 9- Asghari, G.; Sajjadi, S.E.; Sadraei, H.; Yaghobei, KH. Essential oil constituents of *Echinophoria platyloba* D.C. *Iranian Journal of Pharmaceutical Research*, 2003, 2(3) 185-186.
- 10- Sadraei H, Ghanadian M, Asghari G, Jahed M. Bioassay guided fractionation of the effect of *Pycnocycla spinosa* extract of contraction of rat ileum. *Journal of Isfahan Medical School* 2014; 32: 1004-1009.
- 11- حسن صدرايي ، غلامرضا اصغري ، نفيسه وصيله ها ، بررسي اثر ضد اسپاسمي عصاره‌ي هيدروالکلي رزماري و -
مجله دانشکده پزشکی اصفهان، ۱۳۹۸؛ ۳۷(۵۴۶)؛ ۱۱۴۱-۱۱۳۶. Rat اسطوخودوس بر انقباضات رحم
- 12- صفاری امیرمهدی، زادهوش فوزیه، یگدانه افسانه، حسینی شریف آباد علی، طالبی اردشیر، صدرائی حسن. تأثیر عصاره -
روی پارامترهای بیوشیمیایی و هماتولوژیک رات. مجله دانشکده پزشکی اصفهان *Dracocephalum kotschy* هیدروالکلی
۱۴۰۱؛ ۴۰(۶۶۹)؛ ۲۸۷-۲۷۸.
- 13- Atabak M, Hosseini-Sharifabad A, Sadraei H, Mohammadalipour A. Evaluation of the Effect of
Hydroalcoholic Extract of *Dracocephalum Kotschy* Boiss on Hepatic Fibrosis Induced by Carbon
Tetrachloride in Rats. *J Isfahan Med Sch* 2022; 40(672): 356-62.
- 14- Sadraei H, Arzi B, Yegdaneh A. The Effect of Essential Oil and Hydroalcoholic Extract of
Dracocephalum Kotschy on Isolated Heart and Blood Vessel Contractions. *J Isfahan Med Sch* 2024;
41(744): 1030-8.

PRESENTATIONS AND POSTER SESSIONS

Bibliographic format

PATENTS

Date, Item, number

RESEARCH INTERESTS

Drug discovery and development,
Smooth and Cardiac Muscles Pharmacology
Contraction studies
K- and Ca-currents studies

TEACHING INTERESTS

Pharmacology

PROFESSIONAL MEMBERSHIPS

British Pharmacological Society

EXTRA CURRICULAR ACTIVITIES
