



Curriculum vitae Mohammad Rabbani, PhD

 Department of Pharmacology and Toxicology
School of Pharmacy and Pharmaceutical Sciences
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I have been employed in the Department of Pharmacology at Isfahan University of Medical Sciences since 1998.

My research for many years has focused on the action of natural products on insomnia, anxiety and memory function. I have screened a neumerous number of local herbs for this purpose and have recently found a plant component with profound insomnic action.

Major Field of Research

- My principal research interests lie in the field CNS pharmacology
- Neurochemistry, molecular biology, pharmacologic and biochemical correlates of anxiety and memory dysfunction
- Screening and testing of novel herbal compounds for cognitive enhancement and insomnia using various animal models and pre-clinical models.

Education

- 1992 PhD *“The role of calcium channels and of NMDA transmission in barbiturate tolerance and dependence”*
University of Bristol, UK
Funding awarded by the Mental Health Foundation
- 1989 MSc *“Investigation into the development of a rapid method for studying potassium channels in isolated nerve terminals”*
University of Southampton in collaboration with Pfizer Central Research, Sandwich, UK.
- 1987 BSc (Hons) Medicinal Chemistry
University College London, UK

Postdoctoral Research Fellow

- 1993-1996 Department of Pharmacology, Medical School, University of Bristol, UK
Research Focus: *Studying neurochemical basis of alcohol addiction.*
Advisor: Professor H J Little, PhD
- 1996-1998 Department of Pharmacology, School of Medicine, University of Colorado Health Sciences Centre,
Research Focus: *Studying the role of adenylyl cyclase enzyme in the action of alcohol.*
Advisor: Professor Boris Tabakoff, PhD

Professional Experience

- 2008-Present **Professor of Pharmacology**, Isfahan University of Medical Sciences, Iran
- 2004-2008 **Associate professor**, Isfahan University of Medical Sciences, Iran
- 1998-2004 **Assistant professor**, Isfahan University of Medical Sciences, Iran
- 1993-1996 **Teacher’s Assistant**, Pharmacology Laboratory, Department of Pharmacology, Medical School, University of Bristol, UK
- 1995-1996 **Adjunct Instructor**, Department of Pharmacology, Medical School, University of Bristol, UK

Administrative Posts:

1997-Present	Member, Pharmacology department, Isfahan University of Medical Sciences, School of Pharmacy, Iran.
2011-Present	Member, Pharmaceutical Research Centre, Isfahan University of Medical Sciences, School of Pharmacy, Iran.
1393-1397	Vice President of Administration and Finance of the School of Pharmacy, Isfahan University of Medical Sciences, School of Pharmacy, Iran.
2004-2013	Head of Pharmaceutical Biotechnology Department, Isfahan University of Medical Sciences, School of Pharmacy, Iran.
2001-2004	Director, Biotechnology laboratory, Isfahan University of Medical Sciences, School of Pharmacy, Iran.
2018-2021	Member of the Board of Biotechnology

Editorial Boards:

2009 - present	Editorial Board Member, Research in Pharmaceutical Sciences
2003–2009	Editor-in-chief, Journal of Research in Pharmaceutical Sciences

Publications-Books

1. Rabbani, M. & Rostami, A. (eds): Basic Pharmacology. Isfahan University of Medical Sciences Publishing Co. Isfahan, 2004.
2. Rabbani, M. & Karjoo, Z. (Translation): Gene Cloning and DNA analysis. Pezhvake-elme-ariya Publication, Isfahan, 2008
3. Rabbani, M. & Akbari, V. (eds): Blood Biological Products. Isfahan University of Medical Sciences Publishing Co. Isfahan, 2013.
4. Rabbani, M. & Shafei, F. (Translation): Lippincott illustrated reviews: pharmacology, 6th ed. Horoufchin Publication, Isfahan, 2015.

Teaching Experience:

I have coordinated and taught PharmD, MSc and PhD programs within different departments (Pharmacology and Biotechnology). Using modern resources such as course web pages and interactive problems solving in my classrooms has changed the traditional way of teaching at IUMS. I take the

time to familiarize myself with these, and use them in the teaching process whenever possible. Availability is another issue I take seriously. I provide not only scheduled office hours, but also allow for appointments whenever the students require, unless I have an immediate deadline, a meeting or a class. Below is a list of courses which I have taught, including the responsibilities I have played in each one.

Graduate teachings

- 1 **CNS Pharmacology to Medical and Pharmacy students**
- 2 **Pharmacodynamics to for Pharmacy students**
- 3 **Pharmacology for Dental students**

Post-graduate teachings

- 1 **Advanced Neuropharmacology**
- 2 **Cellular Signaling**
- 3 **Molecular Pharmacology**
- 4 **Genetic Engineering**

Educational responsibilities

- Involved in the administration of degree and postgraduate courses as well as responsible for organizing lectures and supervising seminars and tutorials.
- Involved in the designing of new courses and materials.
- Assessing students' course work and material.
- Involved in the setup of exams and the marking of results.
- Responsible for the departmental administrative tasks.
- Providing mentoring, advice and support to students on a personal level.
- Actively leading class discussions and encouraging debate.
- Organized, implemented and monitored programmes and assessments.
- Responsible for preparing learning material for courses and devising relevant practical activities.
- Involved in course team activities and curriculum development for students.
- Participated in the interviewing of potential students.

Thesis Supervision:

In addition to my teachings, I supervise students at both the Bachelor's and PhD level. I have successfully supervised more than 50 PharmD students and two dozen of post-graduate students since 2000. I regularly publish papers in English magazines and international peer-review journals. I am always looking for highly motivated, hardworking and creative students.

Published Articles

1. Dolin, S.J., Patch, T.L., **Rabbani, M.** and Little, H.J. (1990) Nitrendipine decreased seizures during benzodiazepine withdrawal, but not the development of benzodiazepine tolerance or withdrawal signs. *Br. J. Pharmacol.*, 101: 691-697.
2. Dolin, S.J., Patch, T.L., **Rabbani, M.**, Taberner, P.V. and Little, H.J. (1991) Differential interactions between benzodiazepines and the dihydropyridines, nitrendipine and Bay K 8644. *Neuropharmacology*, 30: 217-224.
3. **Rabbani, M.**, Brown, J., Butterworth, A.R. and Little, H.J. (1991) Dihydropyridine-sensitive calcium channels may be involved in the barbiturate withdrawal syndrome, but not in barbiturate tolerance. *Pharmacol. Biochem. Behav.*, 47: 675-680.
4. **Rabbani, M.**, Wright, J., Butterworth, A.R., Zhou, Q. and Little, H.J. (1994) Possible involvement of NMDA-receptor mediated transmission in barbiturate physical dependence. *Br. J. Pharmacol.*, 111: 89-96.
5. **Rabbani, M.** and Little, H.J. (1995) Tolerance to competitive NMDA antagonists, but no cross tolerance with barbiturates. *Pharmacol. Biochem. Behav.* 50: 9-15.
6. **Rabbani, M.**, Yoshimura, M., Hoffman, P.L. and Tabakoff, B. (1999) Effects of ethanol on adenylyl cyclase in platelets and HEL cells. *Irn. J. Med. Sci.* 24: 109-116
7. **Rabbani, M.**, Nelson, E.J, Hoffman, P.L. and Tabakoff, B. (1999) Role of protein kinase C in ethanol-induced activation of adenylyl cyclase. *Alcohol ClinExp Res.*, 23: 77-86.
8. **Rabbani, M** and Little, H.J. (1999) Increases in neuronal Ca²⁺ flux after withdrawal from chronic barbiturate treatment. *Eur. J. Pharmacol.* 364: 221-227.
9. **Rabbani, M** and Tabakoff, B. (2001) Chronic ethanol treatment reduces adenylyl cyclase activity in human erythroleukemia cell. *Eur. J. Paharmacol.* 430: 19-23.
10. **Rabbani, M.**, Saberi, B., Jafarian, A. and Mardanian, F. (2003) Diagnosis of trichomonasvaginalis by PCR method. *SharekordUniversity of Medical Sciences Journal*, 5: 4-9.
11. **Rabbani, M.**, Sajjadi, S.E. and Zarei, H.R. (2003) Anxiolytic effects of *Stachyslavandulifolia*Vahl on the elevated plus-maze model of anxiety in mice. *J. Ethnonopharmacology*, 89: 271-276.
12. **Rabbani, M.**, Jafarian-Dehkordi, A. and Sobhanian, M.H. (2003) Comparison of acute and chronic effects of nifedipine on naloxone-precipitated morphine withdrawal in mice. *Medical Journal of the Islamic Republic of Iran*, 17: 251-257.
13. Gandomkar, M., Najafi, R., Sadat Ebrahimi, S.E., Shafiee, A., Babaei, M.H., **Rabbani, M.** and Shabani, G.A. (2003) Direct labelling of octreotide with 99mTc: effect of different concentration of reducing agents and amount of sodium pertechnetate on radiolabelling efficiency. *Applied Radiation and Isotopes*, 58: 361-364.
14. **Rabbani, M.**, Jafarian, A. and Sobhanian, M.H. (2004) Comparison of acute and long-term effects of

verapamil on naloxane induced morphine withdrawal in mice. *J. Research in Medical Sciences*, 1: 26-33

15. **Rabbani, M.**, Sajjadi, S.E., Vaseghi, G. and Jafarian, A. (2004) Anxiolytic effects of *Echium amoenum* on the elevated plus-maze model of anxiety in mice. *Fitoterapia*, 75: 457-464.
16. **Rabbani, M.**, Jafarian-Dehkordy, A., Hassanzadeh, F., Hashemi, H., Haghiri Ibrahim Abadi, A. and Sabet, S. (2004) Evaluation of anti epileptic effect of conjugated form of valporic acid and phenytoin in mice. *Sharekord University of Medical Sciences Journal*, 6: 22-30.
17. **Rabbani, M.**, Jafarian-Dehkordy, A., and Ahmadi, A. (2004) Acute and chronic effects of nitrendipine on naloxone precipitated morphine withdrawal in mice. *Iranian Journal of Pharmaceutical Research*, 2: 109-114.
18. Hajhashemi, V., **Rabbani, M.**, Asghari, G-R, and Karami-Saravi, Z. (2004) Effects of *Otostegia persica* (Burm.) Boiss on morphine withdrawal syndrome in mice. *Iranian Journal of Pharmaceutical Research*, 3: 171-175.
19. **Rabbani, M.**, Sajjadi, S.E., Jafarian, A. and Vaseghi, G. (2005) Anxiolytic effects of *Salvia reuterana* Boiss. on the elevated plus-maze model of anxiety in mice. *J. Ethnopharmacology*, 101: 100-103.
20. **Rabbani, M.**, Sadeghi, H.M., Jafarian-Dehkordi, A., Hajhashemi, V. and Rostami, A. (2005) N53Q site directed mutagenesis of rat mu opioid receptor and its cloning using pcDNA3 vector. *Pakistan Journal of Biological Sciences*, 8: 1115-1118.
21. Sadeghi, H.M., **Rabbani, M.**, Jafarian-Dehkordi, A., Ghafghazi, T. and Najafzadeh, V. (2005) Site directed mutagenesis of V2 vasopressin receptor and its cloning using PGEM3Z vector. *Biotechnology*, 4: 284-287.
22. **Rabbani, M.**, Sajjadi, S.E. and Jalali, A. (2005) Hydroalcohol extract and fractions of *stachys lavadulifolia* Vahl: effects on spontaneous motor activity and elevated plus-maze behaviour. *Phytotherapy Research*, 19: 854-858.
23. **Rabbani, M.**, Sadeghi, H.M. and Gudarzi, S. (2006) Protective effects of calcium-magnesium soft gels in morphine tolerant and dependent mice. *Magnesium Research*, 19: 1-7.
24. Mir Mohammad Sadeghi, H., **Rabbani, M.** and Moazen, F (2006) Amplification and cloning of Taq DNA polymerase gene from *Thermus Aquaticus* strain YT-1. *Research in Pharmaceutical Sciences*, 1:49-52.
25. Naghsh, N., HaeriRuhani, A., **Rabbani, M.**, Salehi, M., MirmohammadSadeghi, H. and NooriDaloii M.R. (2006) Role of phosporamidate antisense in specific inhibition of K562 leukemic cell line. *Journal of Sciences, Islamic Republic of Iran*, 17: 215-19
26. Dormiani, K., Khazaie, Y., Mir Mohammad Sadeghi, H., **Rabbani, M.** and Moazen, F. (2007) Cloning and expression of a human tissue plasminogen activator variant: K2S in *Escherichia coli*. *Pakistan Journal of Biological Sciences*, 10: 946-949.
27. Jafarian-Dehkordi, A., **Rabbani, M.**, Mir Mohammad Sadeghi, H., Afshar-Moghaddam, N., Alavi,

- S.A., Mahmoodi, F. and Safaeian, L. (2007) Development of time-course of bleomycin-induced pulmonary fibrosis in NMRI mice. *Daru*, 15: 1-5
28. **Rabbani, M.**, MirmohammadSadeghi, H. And Karjoo, Z. (2007) Molecular detection of *Streptomyces griseus* isolated from Isfahan soil. *Pakistan Journal of Biological Sciences*, 10: 3374-3379
 29. Faghani, M., Nikbahkt, M., Salehi, M., **Rabbani, M.**, Talebi, A., Soleimani, B. and Faghihi, M. (2007) Study of p53 polymorphism at codon 72 in patients of breast cancer in Isfahan. *Journal of IsfahanMedicalSchool*, 25: 26-33
 30. **Rabbani, M.**, Mir Mohammad Sadeghi, H., OmidSalary, A., Langari, J., Moazen, F., (2007) Replacement of Serine³⁶³ and Serine³⁷⁵ codons by Alanine in rat μ -opioid receptor cDNA. *Iranian Journal of Pharmaceutical Sciences*, 3: 13-18
 31. Mesripour, A., Hajhashemi, V. and **Rabbani, M.** (2007) The effects of spironolactone on morphine withdrawal induced memory loss by the object recognition task method in mice. *Research in Pharmaceutical Sciences*, 2:77-84
 32. Hassanzadeh, F., Rabbani, M., Khodarahmi, G.A., Fasihi, A., Hakimelahi, G.H. and Mohajeri, M. (2007) Synthesis of phthalimide derivatives and evaluation of their anxiolytic activity. *Research in Pharmaceutical Sciences*, 2:35-41
 33. **Rabbani, M.**, Sajjadi, S.E. and Mohammadi, A. (2008) Evaluation of the anxiolytic effect of *Nepetapersica* Boiss. in mice. *eCAM*, 5: 181-186
 34. Mesripour, A., Hajhashemi, V. and **Rabbani, M.** (2008) Metyrapone and mifepristone reverse recognition memory loss induced by spontaneous morphine withdrawal in mice. *Basic & Clinical Pharmacology & Toxicology*; 102: 377–381
 35. Havaei, S.A., Pshva, E., Tabibian, A., **Rabbani, M.**, Haghshenas, F. and Narimani, T. (2008) Cytolethal distending toxin (CDT) produced by *Campylobacter jejuni* and *Campylobacter coli* isolated from chickens by tissue culture method in Isfahan. *Iranian Journal of Medical Microbiology*; 1(3): 17-23
 36. Safaeian, L., Jafarian, A., **Rabbani, M.**, Sadeghi, H.M., Torabinia, N. and Alavi, S.A. (2008) The role of strain variation in BAX and BCL-2 expression in murine bleomycin-induced pulmonary fibrosis. *Pakistan Journal of Biological Sciences*; 11: 2606-2612.
 37. Mir Mohammad Sadeghi, H., Rabbani, M. and Fazeli, S. (2008) Optimization of alkaline phosphatase gene expression in *E. Coli*. *Research in Pharmaceutical Sciences*; 3: 35-39.
 38. Khajehali, E., Mir Mohammad Sedghi, H. and **Rabbani, M.** (2009) Effects of chronic administration of calcium-magnesium soft gels on morphine tolerance and dependence in mice. *Magnesium Research*; 22: 81-8.
 39. **Rabbani, M.**, Hajhashemi, V. and Mesripour, A. (2009) Increase in brain corticosterone concentration and recognition memory impairment following morphine withdrawal in mice. *Stress-The International Journal on the Biology of Stress*; 12: 451-456.
 40. Safaeian, L., Jafarian, A., **Rabbani, M.**, Mirmohammad Sadeghi, H., Torabinia, N. and Alavi, S.A. (2009) The effect of AT1 receptor blockade on bax and bcl-2 expression in bleomycin-induced

pulmonary fibrosis. *Daru*; 17: 53-59.

41. **Rabbani, M.** Mirmohammadsadegh, H., Ani, M., Goodarzvand, K., Etemadifar, Z. and Moazen, F. (2009) Functional expression of an alkaline lipase in *Escherichia coli*. *Annals of Microbiology*; 59: 763-769.
42. Mirmohammadsadegh, H., **Rabbani, M.** Naghitorabi, M. (2009) Cloning of alkaline protease gene from *Bacillus subtilis* 168. *Research in Pharmaceutical Sciences*; 4: 43-46.
43. Mirmohammadsadegh, H., **Rabbani, M.** Moazen, F. and Homami, S. (2010) Molecular detection of lipase A gene in putative *Bacillus subtilis* strains isolated from soil. *Iranian Journal of Biotechnology*: 8: 46-49.
44. Najafzadeh, H., Safaeian, L., MirmohammadSadeghi, H., Rabbani, M. and Jafarian, A. (2010) The effect of aspartate-lysine-isoleucine and aspartate-arginine-tyrosine mutation on the expression and activity of vasopressin V2 receptor gene. *Iranian Biomedical Journal*: 14: 17-22.
45. Rostami, A, **Rabbani, M** and Mir-Mohammad-Sadeghi, M. (2010) The role of N53Q mutation on the mu-opioid receptor function. *Journal of Biomolecular Techniques*: 21: 92-96.
46. **Rabbani, M.**, MirMohammadSadeghi, H., Ani, M., Goodarzvand, K., Etemadifar, Z., Moazen, F. (2010) Cloning and nucleotide sequence of a lipase gene from a soil isolate. *Research in Pharmaceutical Sciences*: 4: 25-32.
47. **Rabbani, M.**, Sajjadi, SE. Rahimi, F. (2010) Anxiolytic effect of flowers of *salixaegyptiaca* L. in mouse model of anxiety. *Journal of Complementary and Integrative Medicine*: 7: Article 24.
48. Hajhashemi, V., **Rabbani, M.**, Ghanadi, M., Davari, E. (2010) Evaluation of antianxiety and sedative effects of essentialoil of *Ducrosiaanethifolia* in mice. *Clinics*: 65: 1037-1042.
49. Darabi, M., Ani, M., Movahedian, A., Zarean, E., Panjehpour, M., **Rabbani, M.** (2010) Effect of hormone replacement therapy on total serum anti-oxidant potential and oxidized LDL/ β 2-glycoprotein I complexes in postmenopausal women. *Endocrine Journal*: 57: 1029-1034.
50. Mir Mohammad Sadeghi, H., **Rabbani, M.**, Jafarian, A, Najafzadeh, H., Safaeian, L. (2010) Mutation of the histidin residue of the DRH motif in vasopressin V2 receptor expression and function. *DARU*: 18: 286-291.
51. Mir Mohammad Sadeghi, Rajaei, R., Moazen, F., **Rabbani, M.**, Jafarian, A. (2010) Mutating Asn-666 to Glu in the O-helix region of the taq DNA polymerase gene. *Research in Pharmaceutical Sciences*: 5: 19-23.
52. Darabi, M., **Rabbani, M.**, Ani, M., Zarean, E., Panjehpour, M., Movahedian, A. (2011) Increased leukocyte ABCA1 gene expression in post-menopausal women on hormone replacement therapy. *Gynecological Endocrinology*: 27:701-705.
53. Darabi, M., **Rabbani, M.**, Ani, M., Zarean, E., Panjehpour, M., Movahedian, A. (2011) Effect of estrogen receptor A1730G polymorphism on ABCA1 gene expression response to postmenopausal HRT. *Genetic Testing and Molecular Biomarkers*. 15: 11-15.
54. **Rabbani, M.**, Sajjadi, S.E., Sadeghi, M. (2011) Chemical composition of the essential oil from

Kelussia odoratissima Mozaff. and the evaluation of its sedative and anxiolytic effects in mice. *Clinics*: 66: 843-848.

55. **Rabbani, M.**, Sajjadi, S.E., Khalili, S. (2011) A lack of tolerance to the anxiolytic action of *Echium amoenum*. *Research in Pharmaceutical Sciences*: 6: 101-106.
56. **Rabbani, M.**, Vaseghi, G., Sajjadi, S.E., Amin, B. (2011) Persian herbal medicine with anxiolytic properties. *Journal of Medicinal Plants*: 10: 7-11.
57. **Rabbani, M.**, MirMohammad Sadeghi, H., Moazen, F., Rahimi, M., Salehi, G. (2011) Cloning and expression of randomly mutated *Bacillus subtilis* α -amylase genes in HB101. *Biotechnology Research International*: 2011: doi: 10.4061/2011/305956.
58. Mir Mohammad Sadeghi, H., **Rabbani, M.**, Rismani, E., Moazen, F., Khodabakhsh, K., Dormiani, K., Khazaei, Y. (2011) Optimization of the expression of reteplase in *Escherichia coli*. *Research in Pharmaceutical Sciences*. 6: 87-92.
59. Ghannadi, A., **Rabbani, M.**, Ghaemmaghani, L., Malekian, N. (2012) Phytochemical screening and essential oil analysis of one of the Persian sedges: *Cyperus rotundus* L. *International Journal of Pharmaceutical Sciences and Research*. 3: 424-427.
60. Hassanzadeha, F., **Rabbani, M.**, Khodarahmi, G.A., Moosavi, M. (2012) Synthesis and Evaluation of the Anxiolytic Activity of Some Phthalimide Derivatives in Mice Model of Anxiety. *Iranian Journal of Pharmaceutical Research*, 11: 109-115.
61. **Rabbani, M.**, Hajhashemi, V., Vadizadeh A. (2012) Co-administration of calcium gluconate and magnesium acetate effectively blocks the signs of morphine withdrawal in mice. *Magnesium Research*, 25:40-8.
62. Motavallian-Naeini, A., Minaiyan, M., **Rabbani, M.**, Mahzuni, P. (2012) Anti-inflammatory effect of ondansetron through 5-HT₃ receptors on TNBS-induced colitis in rat. *Excli Journal*, 11:3044.
63. Motavallian-Naeini, A., Andalib, S., **Rabbani, M.**, Mahzouni, P., Afsharipour, M., Minaiyan, M. (2012) Validation and optimization of experimental colitis induction in rats using 2, 4, 6-trinitrobenzene sulfonic acid. *Research in Pharmaceutical Sciences*, 7:159-169.
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65. **Rabbani, M.**, Sajjadi, S.E., Izadi, A. (2012) Alleviation of morphine withdrawal signs but not tolerance by the essential oil of *Kelussia odoratissima* Mozaff. *Evidence-Based Complementary and Alternative Medicine*, Article id 847096, doi: 10.1155/2012/847096.
66. Vaseghi, G. **Rabbani, M.**, Hajhashemi, V. (2012) The CB₁ Receptor Antagonist, AM281, Improves Recognition Loss Induced by Naloxone in Morphine Withdrawal Mice. *Basic & Clinical Pharmacology & Toxicology*, 111:161-165.
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69. Mahdavi, M., Mohabbatkar, H., Keyhanfar, M., Jafarian Dehkordi, A., **Rabbani, M.** (2012) Linear and Conformational B Cell Epitope Prediction of the HER 2 ECD-Subdomain III by in silico Methods. *Asian Pacific Journal of Cancer Prevention*, 13:3053-3059.
70. Vaseghi, G., Andalib, S., Rabbani, M., Sajjadi, S.E., Jafarian, A. (2012) Hypnotic Effect of *Salvia reuterana* Boiss for Treatment of Insomnia. *Journal of Medicinal Plants*, 11:7-13.
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77. Khodabakhsh, F., Zia M.F., Moazen, F., Rabbani, M., Mir Mohammad Sadeghi, H. (2013) Comparison of the cytoplasmic and preplasmic production of reteplase in *Escherichia coli*. *Preparative Biochemistry and Biotechnology*, 43:613-623.
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(2013) In silico Design of Discontinuous Peptides Representative of B and T-cell Epitopes from HER2-ECD as Potential Novel Cancer Peptide Vaccines. *Asian Pac J Cancer Prev*, 14: 5973-5981.

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