

Name: FIKRAT ILJAS ABDULLAEV

Place of Birth Baku, Azerbaijan
Date of Birth 18 October, 1943
Sex Male
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Education

1989 **Doctor of Biological Sciences**, Institute of Biochemistry,
Ucrainan Academy of Sciences, Kiev, Ucraina

1970 **Ph. D.** Institute of Botany, Azerbaijan Academy of Science.
Baku, Azerbaijan

1965 **B.S.** Baku State University. Baku, Azerbaijan,

Professional Experience

1997- a la fecha Head of Experimental Oncology Laboratory,
Instituto Nacional de Pediatría,
México, D.F.

2003 Visiting Professor, University of Castilla la
Mancha, Albacete, Spain

1995-1997 Professor, Departamento de
Investigación y Posgrado en Alimentos
Facultad de Química, Universidad Autónoma
de Querétaro, México

1990-1993	Visiting Scientist, Department of Biological Sciences. Rutgers University, Newark, NJ, USA
1986-date	Professor and Head, Genome Biochemistry Laboratory. Institute of Botany, Azerbaijan Academy of Sciences, Baku, Azerbaijan
1976-1986	Associate Professor and Head of Molecular Enzymology Laboratory. Institute of Physics, Azerbaijan Academy of Sciences, Baku, Azerbaijan.
1982	Visiting Scientist. Institute of Biochemistry, Munich University, Germany
1979	Visiting Scientist. Department of Biochemistry, Stockholm University, Sweden
1973-1976	Senior Research Fellow. Department of Molecular Enzymology, Institute of Molecular Biology, USSR Academy of Sciences, Moscow, USSR
1970-1973	Postdoctoral Fellow, Senior Research Fellow, Department of Biochemistry, Institute of Botany, Azerbaijan Academy of Sciences, Baku, Azerbaijan
1966-1970	Research Fellow. Laboratory of Biochemistry, Institute of Genetics, Azerbaijan Academy of Sciences, Baku, Azerbaijan
Grants:	# 28513 (CONACyT, Mexico) \$ 901,500,00, 1997
	# 3143P-N9607 (CONACyT, Mexico) \$ 435,500,00, 1999
	# U40011-M (CONACyT, Mexico) \$ 1,672,208, 2003

Professional Affiliations

Member:

Mexican Academy of Science
 Sistema Nacional de Investigadores de Mexico
 Mexican Society for Biochemistry
 International Society for Horticultural Sciences
 American Association for the Advancement of Science
 New York Academy of Science
 American Association for Cancer Research
 Asociación Médica del Instituto Nacional de Pediatría, A.C., México
 Institutional Scientific Committee, Institute of Botany
 Azerbaijan Academy of Science, Baku
 Azerbaijan Society for Genetics
 Azerbaijan Society for Biochemistry
 New York Academy of Sciences
 Board Directors of the Azerbaijan Scientific Association

Areas of Expertise

Nucleic acid and protein biochemistry. Selenium & saffron biochemistry.
 Chemical toxicity and cytotoxicity in vivo and in vitro.

Mechanism of antitumor effects of chemical and naturally-occurring agents.

Awards

Co-organizer, IInd International Symposium on Saffron Biology and Biotechnology, Mashad, Iran, 2004

Co-organizer, Ist International Symposium on Saffron Biology and Biotechnology, Albasete, Spain, 2003

Invited Lecturer, INVITOX Workshop, Italy, 2002

Invited Lecturer, China Light Industry University, 2000

Invited Lecturer, The Dakha University, 2000

Invited Lecturer, The New Delhi University, 1999

Honor Lecturer, The Pennsylvania State University, 1991

Listed in:

Who is Who in the World

Dictionary of International Biography

5000 Personalities in the World

International Book of Honor

International Cultural Diploma of Honor

"Man of year 1996", American Biographical Institute

Bibliography

1) Publications

1. **Abdullaev F.I.**, Espinosa Aguirre J.J. (2004) Biomedical properties of saffron and its potential use in cancer therapy and chemoprevention trials. *Cancer Detection & Prevention*. Submitted

2. Castillo-Villanueva A., **Abdullaev F.I.** (2004) "Lectinas vegetales y su efecto en cancer." *Revista de Investigación Clínica*. In press

3. **Abdullaev F.I.**, Riverón-Negrete L., Pérez-López I., Espinosa-Aguirre J.J. (2004) "Cytotoxic and antimutagenic effects of sodium selenite." *Revista Internacional de contaminación ambiental*. Accepted

4. **Abdullaev F.I.** (2004) "Antitumor effect of saffron (*Crocus sativus* L.): overview and perspectives. In: "Proc Ist IS on Saffron" Eds J.A. Fernandez & F. Abdullaev, *Acta Hort* 650: 491-499.

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5. Trujillo-Jimenez F., Garcia Lopez P., Garcia-Carranca A., **Abdullaev F.I.** (2004) "Effect of saffron extracts on viability of human malignant cells. In: "Proc Ist IS on Saffron" Eds J.A. Fernandez & F. Abdullaev, *Acta Hort* 650: 463-470.

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6. Riveron-Negrete L., Camacho-Carranca, R., Caballero-Ortega H., Hernández J. M., Medécigo-Ríos M., Castillo-Villanueva A., Pérez-López I., Espinosa-Aguirre J.J., **Abdullaev F.I.** (2004) "Additive inhibitory effect of saffron in combination with sodium selenite on tumor cells" In: "Proc Ist IS on Saffron" Eds J.A. Fernandez & F. Abdullaev, *Acta Hort* 650: 477-484. **ISBN:9066056770; ISSN:0567-7572**

7. Hernández J.M., **Abdullaev F.I.**, Caballero-Ortega H., Riverón-Negrete L, Pérez-López I., Medécigo-Ríos M., Castillo-Villanueva A., Espinosa-Aguirre J.J. (2004) Evaluation of the mutagenic and antimutagenic activities of saffron. In: "Proc Ist IS on Saffron" Eds

J.A. Fernandez & F. Abdullaev, Acta Hort 650: 471-475.
ISBN:9066056770; ISSN:0567-7572

8. Caballero-Ortega H., Riverón-Negrete L, Hernández J. M., Pereda-Miranda R., Medécigo-Ríos M., Castillo-Villanueva A., **Abdullaev F.I.** (2004) Chemical composition of saffron (*Crocus sativus L.*) from four countries. In: " Proc Ist IS on Saffron" Eds J.A. Fernandez & F. Abdullaev, Acta Hort 650: 321-325. **ISBN:9066056770; ISSN:0567-7572**

9. **Abdullaev F.I.**, Caballero Ortega, H., Riveron Negrette, L., Pereda Miranda R., Hernandez, J.M., Perez Lopez, J., and Espinosa Aguirre, J.J. (2003) Use of *in vitro* assays to assess the potential genotoxic and cytotoxic effects of saffron (*Crocus sativus L.*). Tox In Vitro, 17: 731-736

10. **Abdullaev, F.I.** (2003) "Saffron (*Crocus sativus L.*) and its possible role in the prevention of cancer" In: "Recent Progress in Medicinal Plants" Ed. Govil JN, Research Book Centre, New Delhi, India, 3: 53-67
XI Foro Anual de Investigacion Cientifica, INP, 19-21 Septiembre, 2001, Mexico D.F., México

11. **Abdullaev, F.I.** (2003) *Crocus sativus* against cancer. Arch Med Res, 34(4): 1

12. **Abdullaev, F.I.** (2002) " Cancer chemopreventive and tumoricidal properties of saffron (*Crocus sativus L.*). Exp Biol Med, 227 (1): 20-25

13. **Abdullaev, F.I.** , Caballero- Ortega, H., Riveron-Negrette, R., Pereda-Miranda, R., Rivera-Luna, R., Hernandez, J.M., Perez-Lopez, I., Espinosa-Aguirre, J.J. (2002) Evaluación *in vitro* del potencial quimiopreventivo del azafrán. Revista de Investigacion Clinica, 54, 5, 430-436

14. Riveron-Negrette L., Caballero-Salazar, S., Ordaz-Tellez, M.G., **Abdullaev, F.I.** (2002) The combination of natural and synthetic agents - a new approach in cancer chemoprevention. Proc West Pharmacol Soc, 45: 74-75

15. Caballero-Salazar, S., Riveron-Negrette L., Ordaz-Tellez, M.G., **Abdullaev, F.I.**, Espinosa-Aguirre J.J. (2002) Evaluation of the antimutagenic activity of different vegetable extracts using an *in vitro* screening test. Proc West Pharmacol Soc, 45: 101-103

16. **Abdullaev, F.I.** (2002) "Saffron (*Crocus sativus L.*) and its possible role in the prevention of cancer" In: "Recent Progress in Medicinal Plants" Ed. Govil JN, Research Book Centre, New Delhi, India, 3: 53-67

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19. **Abdullaev, F.I.**, (2001) Plant-derived agents against cancer" In: Pharmacology and Therapeutics in the New Millenium, Ed. Gupta SK, Narosa Publishing House, New Delhi, India, 345-354
20. **Abdullaev, F.I.**, Rivera Luna, R., Roitenburd Belacortu, V., Espinosa Aguirre, J. (2000) "Pattern of childhood cancer mortality in Mexico" Arch Med Res, 31(5): 526-531
21. **Abdullaev, F.I.**, Riveron Negrette, L., Roitenburd Belacortu, V., Kasumov, F.J., Pérez López I., Hernández J.M., Espinosa Aguirre, J.J. ((2000) In: " Food of 21st Centure: Food and Recourse Technology Environment" Ed. Wenui Tao, China Light Industry Press, China, 185-195
22. **Abdullaev, F.I.** and Frenkel, G.D.(1999)"Saffron in biological and medical research " In: " Saffron, Crocus sativus L.Ed Negbi M.Serias part: Medicinal & Aromatic Plants - Industrial Profiles. Vol. 8, Harwood Academic Publisher, Amsterdam, 10, 103-113
23. Rocha,N., Salazar-Olivo,L., **Abdullaev,F.I.** and Gonzalez de Mejia,E. (1999) The hemagglutinating and cytotoxic activities of extract from Mexican legumes on human tumor cells".In book "The Proceeding of the 3rd. International Conference " Food for Health in the Pacific Rim" (Edited by Whitaker J.R., Haard N.F., Shoemaker C.F., Singh R.P.) Food & Nutrition Press Inc. Trumbull; Connecticut 06611 USA, ISBN: 0-917678-46-X), 420-426
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27. **Abdullaev, F.I.** and Elvira Gonzalez de Mejia (1997) "Actividad antitumoral en componentes naturales: Lectinas y azafrán." Archivos Latinoamericanos de Nutrición, 47, 3, 195-202
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34. **Abdullaev, F.I.** and Frenkel, G.D. (1992) "The effect of saffron on the colony formation and macromolecular synthesis in HeLa cells." BioFactors, **3**:201-204.
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51. Abdullaev, G.B., Mekhtiev, N.Kh., Kasumov, Kh.M., **Abdullaev, F.I.**, Mamedov, S.V., Mamedov, E.Sh., Kojokaru, A.F., Akoev, I.G. (1981) "Study of the mechanisms and effects of organic compounds on mitochondria membranes." Dokladi of Azerbaijan Academy of Sciences, **4**:40-44.
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53. Abdullaev, G.B., Mekhtiev, N.K., **Abdullaev, F.I.** and Kafiani, K.A. (1980) "Effect of sodium selenite on RNA synthesis in loach embryos." Biokhimiya, **45**:98-101.
54. Mekhtiev, N.K., **Abdullaev, F.I.**, Rzaeva, N.A. and Abdullaev, M.M. (1980) "Effect of selenium on nucleic acid synthesis in rat liver." Izvestiya of Azerbaijan Academy of Sciences **2**:78-81.
55. Abdullaev, G.B., Mekhtiev, N. K., **Abdullaev, F.I.** (1977) "The influence of selenium on RNA synthesis in development embryos of *Misgurnus fossilis*". Dokladi of Azerbaijan Academy of Sciences, **6**:103-110.
56. Mekhtiev, N. K., **Abdullaev, F.I.**, (1976) "Effect of selenium on DNA dependent RNA polymerase in E. coli." Dokladi of Azerbaijan Academy of Sciences, **32**:27-30.
57. **Abdullaev, F.I.** and Mekhtiev, N.K. (1976) "Effect of selenium on RNA synthesis *in vitro*." In: Selenium in biology (G.B. Abdullaev, Ed.) Elm Publishing, Baku. **1**:72-80.
58. **Abdullaev, F.I.**, Abutalibov, M.G. and Beritashvili, D.R. (1975) "ATP-ase and c-AMP activity in the Cucumber." Dokladi of Azerbaijan Academy of Sciences, **31**:40-43.
59. Alizade, M.A., **Abdullaev, F.I.**, (1974) "Determination of free nucleotide and nucleic acid contents in leaves of grapes grown under varying water status." Izvestiya of Azerbaijan Academy of Sciences, **3**:33-37.
60. **Abdullaev, F.I.** and Tagieva, L.A. (1974) "To study biochemical and anatomical differences in different sorts of grapes grown under

varying water status." Izvestiya of Azerbaijan Academy of Sciences, **3**:28-32.

61. **Abdullaev, F.I.** (1970) " The study of nucleic acid metabolism in grapes leaves" Tesis of Ph.D. dissertation, Elm, Baku, 1-189

62. Alizade, M.A. and **Abdullaev, F.I.** (1970) "Dynamics of accumulation of total sugar in leaves of different varieties of grapes grown in the Karabach area under varying water status." Dokladi of Azerbaijan Academy of Sciences, **26**:50-52.

63. **Abdullaev, F.I.** (1969) "Investigation of the content of sugar and protein in leaves of grape varieties: Tabris and Isabella." Dokladi of Azerbaijan Academy of Sciences, **10**:68-70.

64. Akhmedova, S.A., **Abdullaev, F.I.**, (1968) "Dynamics of the accumulation of vitamin C and total sugar in leaves and berries of different varieties of grapes." Dokladi of Azerbaijan Academy of Science. **24**:32-38.

2) Abstracts.

1. **Abdullaev F.I.** (2004) Evidence of cytotoxic effect of saffron on the growth of different human malignant cells. INCTR Annual Meeting 1-6 October, 2004. Cairo, Egypt

2. **Abdullaev F.I. et al.** (2004) Carotenoids ingredients of *Crocus sativus L.* in cancer prevention. 7th International ISSX Meeting, August 29 - September 2, 2004, Vancouver, Canada

3. **Abdullaev F.I. et al.** (2004) Cytotoxicity tepary bean lectins (*Phaseolus acutifolius lectins*) on human malignant cells. IFT Annual Meeting, 13-16, July, 2004, California, USA

4. **Abdullaev F.I.** (2004) Saffron as potential candidate for cancer chemoprevention trials. 7th International Symposium on Predictive Oncology and Intervention Strategies. 7-10 February, 2004, Nice, France

5. **Abdullaev F.I.** (2003) Antitumor effect of saffron (*Crocus sativus L.*): overview and perspectives. Ist International Symposium on Saffron Biology and Biotechnology (ISSBB-2003) 22-25 October 2003, Albacete, Spain

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8. **Abdullaev F.I. et al.** (2003) Effect of saffron extracts on viability

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18. **Abdullaev F.I.**, et al. (2001) Comparative contains of an nutrients and non-nutrients in four preparations of beet in the diet. Meeting of Phytochemical Society of Europe " Plant Biotechnology - Better Products from Better Plants". 10-13 June, 2001, Helsinki, Finland

19. **Abdullaev F.I.**, et al. (2001) Semi-preparative separation of cytotoxic components of saffron using HPLC. 42th Annual Meeting of the American Society of Pharmacognosy. 14-18 July, 2001, Oaxaca, México

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22. **Abdullaev F.I.**, et al. (2000) Efecto inhibitorio del extracto de azafran (*Crocus sativus* L.) en la formación de colonias de diferentes células malignas humanas *in vitro*. XIV Congreso Nacional de Posgrado. 7-9 Junio, 2000, Centro Medico Nacional Siglo XXI del IMSS, Mexico D.F.
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