

CURRICULUM VITAE

Name: Abdel-Azim Assi
(Married, 2 children)

Date of Birth: November 18, 1954

Nationality: Egyptian

Academic Qualifications:

(a) B. Sc. in Pharmaceutical Sciences, (Oct. 1973 - June 1978) General Grade: Very Good with Degree of Honor), Faculties of Pharmacy, Assiut University, Assiut, Egypt; The main subjects are: Pharmacology, Clinical Pharmacology, Toxicology, Clinical Toxicology, Biological Assays, Statistics, Pharmacognosy, Pharmaceutics, Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Pharmaceutical Chemistry, Human Anatomy, Physiology, Pathology, Parasitology, Biochemistry, Histology and Microbiology.

(b) Special Post-graduate Courses, (Oct. 1978 - Oct. 1983): Instrumental Analysis, Physical Chemistry, Mathematics and Statistics, General Pharmacology, Physiology, Toxicology, Chemotherapy, Parasitology and Pathology; Faculties of Medicine, Pharmacy and Sciences, Assiut University.

(c) M.Sc. in Pharmacology, (Nov. 1983), Faculty of Medicine, Assiut University in cooperation with American Research Center (NAMERO), Cairo.

M.Sc. Thesis entitled: A pharmacokinetic study of propranolol in experimental Schistosomiasis.

(d) Ph.D. in Pharmacology, May 1989: According to the Channel System between Assiut University, Egypt and Erlangen-Nurnberg, Germany.

Ph.D. Thesis entitled: Effects of peripherally and centrally acting analgesics on pain-related evoked potentials.

Ph.D. Courses: Pharmacology, Physiology, Toxicology, Molecular Biology, Biochemistry, Immunology, Microbiology, Histology and Anatomy.

(e) Postdoctoral research in Pharmacology and Toxicology and promotion towards the Degree of professor of pharmacology and toxicology at Faculty of Medicine, Assiut University, Egypt.

Scientific Awards & Grants:

- (i) Fellowship from the Egyptian Ministry of Higher Education (Germany (Aug. 1986 – Oct. 1988).
- (ii) Postdoctoral Fellowships from the State of Baden-Wurttemberg, Germany (May 1990 - Dec. 1990 and from June 1991 - Dec. 1991),
- (iii) Postdoctoral Fellowship from the DAAD of Germany (July 1994 - Sept. 1994).
- (iv) Grant from the Egyptian Technical Co-operation Fund for Africa of the Egyptian Ministry of Foreign Affairs (Oct. 1992 - Aug. 1996, Ethiopia),
- (v) Grant from the National Institute on Drug Abuse, USA (NIDA/INVEST) USA (Sept. 1999 - Sept. 2000),
- (vi) International Neurological Science Fellowship Grant, from National Institute of Neurological Disorders and Stroke, USA (Oct. 2000-Oct.2002)

Research Experience:

- (i) Maintenance of *Schistosoma Mansoni* life cycle in the laboratory (American Research Center, NAMERO, Cairo and Faculty of Medicine, Assiut University, Egypt),
- (ii) Determination of the different pharmacokinetic parameters (American Research Center, NAMERO, Cairo and Faculty of Medicine, Assiut University, Egypt),
- (iii) The use of brain evoked potentials in the assessment of analgesic drugs; Institute of Pharmacology & Toxicology, University of Erlangen-Nurnberg, Germany and Faculty of Medicine, Assiut University, Egypt),
- (iv) The use of different toxicological techniques and experimental teratology and organ toxicity using zebrafish (Institute of pharmacology & toxicology, Faculty of clinical Medicine Mannheim, University of Heidelberg, Germany),
- (v) The use of different techniques for evaluating analgesic and anticonvulsant agents (Faculty of Medicine, Assiut University, Egypt),
- (vi) The use of hippocampal brain slices in the evaluation of the effect of drugs on signal transduction mechanisms (University of Washington, Seattle, USA),
- (vii) The use of different techniques used in molecular biological neuroscience research: Gel Electrophoresis, Protein Assay, Western Blot, Ligand-binding Assay (JLC-BBRI, Neuroscience/Drug Abuse Research Center, North Carolina Central University, USA).

Career History & Work Experience:

(i) Experience in the works of Pharmacies and Pharmaceutical Laboratories at the Maady Armed Forces Hospital, Cairo (July 1979 - July 1980),

(ii) Demonstrator of pharmacology, toxicology, clinical pharmacy, clinical pharmacology, first aid and biological assays at the Department of pharmacology, Faculty of Medicine, Assiut University (Oct. 1978 - Jan. 1984),

(iii) Assistant lecturer of pharmacology, toxicology, clinical pharmacy, clinical pharmacology, first aid and biological assays at the Department of pharmacology, Faculty of Medicine, Assiut University (Jan. 1984 - May 1989),

(iv) Lecturer of pharmacology, toxicology, clinical pharmacy, clinical pharmacology, first aid and biological assays at the Department of pharmacology, Faculty of Medicine, Assiut University (June 1989 - Sept. 1992),

(v) Assistant professor of pharmacology, toxicology, clinical pharmacy, clinical pharmacology and first aid at Addis Ababa University, Ethiopia (Oct. 1992 - Aug. 1996),

(vi) Associate professor of pharmacology, toxicology, clinical pharmacy, clinical pharmacology, first aid and biological assays at the Department of pharmacology, Faculty of Medicine, Assiut University (Oct. 1996 – Sept. 1999), and promotion to full Professor on Sept. 2001.

(vii) Research Scientist in neuropharmacology, neuroanatomy and drug abuse (Research and teaching), at the Department of Pharmacology, School of Medicine, University of Washington, Seattle, USA (Sept. 8, 1999- Sept. 8, 2000).

(viii) Research Scientist in neuroscience and drug abuse (Research and teaching), at the JLC-BBRI, Neuroscience/Drug Abuse Research Center, North Carolina Central University, USA (Sept. 2000 - Oct. 2002)

(ix) Professor of pharmacology, toxicology, clinical pharmacy, clinical pharmacology, first aid and biological assays at the Department of pharmacology, Faculty of Medicine, Assiut University (Sep. 2001- Present).

Work experience includes demonstrating and teaching of the above-mentioned subjects, implementation /development/evaluation of the curriculum, educational and research programs for medical and pharmacy students, graduate and post-graduate students in pharmacology, toxicology and therapeutics (M. Sc. & Ph.D. Theses).

Periods of work Study and Research Abroad:

- (1) Egyptian Fellowship to conduct the experimental work and to collect the Scientific Material for the Ph.D. Degree at the University of Erlangen-Nurnberg, Germany (03.04.1986 – 21.05.1989).
- (2) Postdoctoral Fellowship from the State of Baden-Wurttemberg, Germany, to conduct research at the Institute of Pharmacology and Toxicology, Faculty of Clinical Medicine Mannheim, University of Heidelberg, Germany (01.05.1990 - 31.12.1990),
- (3) Postdoctoral Fellowship from the State of Baden-Wurttemberg, Germany, to conduct research at the Institute of Pharmacology and Toxicology, Faculty of Clinical Medicine Mannheim, University of Heidelberg, Germany (01.06.1991 - 31.12.1991),
- (4) Postdoctoral Fellowship from the DAAD of Germany, to conduct research at the Institute of pharmacology and toxicology, faculty of clinical Medicine Mannheim, University of Heidelberg, Germany (01.07.1994 - 30.09.1994).
- (5) Participation in the International Educational Workshops "New Methods in Student Assessment and Skills Training" and Learning Through Problems" which have been held at the University of Limburg, Maastricht, the Netherlands, June 1990 (WHO Fellowship).
- (6) Expert at the Egyptian Technical Co-operation Fund for Africa of the Egyptian Ministry of Foreign Affairs: Teaching of pharmacology, toxicology, clinical pharmacy Family health & planning and first aid to pharmacy students and supervision of the research activities (pharmacology & toxicology) of graduate and post-graduate students, Schools of Pharmacy & Medicine, Addis Ababa University (AAU) as well as the implementation of the curriculum of the School of Pharmacy, AAU, Ethiopia (Oct. 1992-Aug. 1996).

(7) Grant from the National Institute on Drug Abuse, USA (NIDA/INVEST) to conduct Research on Drug Abuse (Opioid Receptors) at the University of Washington Seattle, USA (Sept. 1999-Sept. 2000)

(8) International Neurological Science Fellowship Grant, from National Institute of Neurological Disorders and Stroke, to conduct Research on Drug Abuse (Cannabinoid Receptors) at North Carolina Central University, USA (Sept. 2000-Oct. 2002)

(9) Participation in building of the Curriculum of some Medical and Pharmacy Institutes in Universities of Saudi Arabia

10) Participation in many research projects funded by national and international agencies

(11) Participation in many of the national and International Conferences

(12) Member of the Egyptian Committee for promotion towards the Degrees of Associate and Full Professorships of the Universities Supreme Council

Memberships

1. Canadian Society for Pharmaceutical Sciences, Canada.
2. Society for Neuroscience, USA,
3. The International Society for Cannabinoids,
4. The International Society for Narcotics,
5. The American Association for the Advancement of Science, USA,
6. The American College of Clinical Pharmacology, USA,
7. The International Society of Data Fusion.

Address:

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Universität Erlangen-Nürnberg
Universitätsstr. 22
D-8520 Erlangen BRD

Prof. Dr. med. Gerd Kobal
09131 / 85-2277

13. Februar 1989

To the examination committee of Mr. Assi's Ph. D. Thesis

Mr. Abdel-Azim Assi worked on his Ph. D. Thesis in my laboratory from 1.10.1986 until 30.9.1988. The subject was "Effects of peripherally and centrally acting analgesics on pain-related evoked potentials".
I have received and accepted the final version of his Ph. D. Thesis.



The German Supervisor
Prof. Dr. Gerd Kobal

Institut für
Pharmakologie und Toxikologie
der Fakultät für Klinische Medizin Mannheim
der Universität Heidelberg
Federal Republic of Germany

Maybachstraße 14 - 16
6800 Mannheim 1
Telefon (0621) 331067
Telefax (0621) 377601
31.07.1996

CERTIFICATE

This is to confirm that Dr. Abdel-Azim Assi, from the Department of Pharmacology, Faculty of Medicine, Assiut University, Egypt, had actively and successfully participated in the research programs of the Department of Pharmacology, Faculty of Clinical Medicine, Mannheim, University of Heidelberg, Germany, in the periods between May 1990 - December 1990; June 1991 - December 1991; and from July 1994 - September 1994. He received Fellowships and grants from the State of Baden-Wurttemberg, the DAAD, and from the University of Heidelberg.



Prof. Dr. Klaus J. Freundt



The National Institute on Drug Abuse
National Institutes of Health


presents this certificate to

Abdel Azim Assi

in recognition of participation in the

INVEST Research Fellowship Program

1999-2000


Alan I. Leshner, Ph.D.
Director, National Institute on Drug Abuse (NIDA)

Date June 12, 2000

University of Washington
School of Medicine

Department of Pharmacology
Seattle, Washington

This certifies that

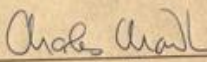
Abdel-Azim Assi, Ph.D.

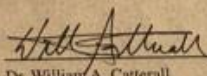
has satisfactorily performed the duties of

Visiting Scientist
Dr. Charles Chavkin's Laboratory

September 8, 1999 - September 8, 2000

in witness whereof the undersigned affix their signatures


Charles Chavkin, Ph.D.
Professor
Department of Pharmacology


Dr. William A. Catterall
Professor and Chair
Department of Pharmacology

North Carolina Central University
Julius L. Chambers Biomedical/ Biotechnology Research Institute

Neuroscience of Drug Abuse Program
Durham, North Carolina

This certifies that

Abdel-Azim Assi, Ph.D.

Has satisfactorily performed the duties of

Visiting Scientist

In Dr. Adys Hovick's Laboratory

September 19, 2000 - October 1, 2001

in witness whereof the undersigned affix their signatures


Adys C. Hovick, Ph.D.
Director, Neuroscience Drug
Abuse Research Program


Lisa R. Harwood, Ph.D.
Director, J.C. DBRI

***** NOTICE OF RESEARCH FELLOWSHIP AWARD *****
INTERNATIONAL FELLOWSHIP Issue Date: 02/21/2000

Department of Health and Human Services
National Institutes Of Health
NATIONAL INSTITUTE OF NEUROLOGICAL DISORDERS AND STROKE

Grant Number: 1 F05 NS11110-01
Principal Investigator: ASSI, ABDEL-AZIM PHD
Project Title: CB1 RECEPTOR STRUCTURE: INFLUENCE ON SIGNAL TRANSDUCTION

FINANCIAL OFFICER
ST LOUIS UNIVERSITY
PHARMACOLOG & PHYSIOLOG SCIENCES
1402 S GRAND BLVD
ST LOUIS, MO 63104

Latest Activation Date: 08/01/2000

Dear Business Official:

The National Institutes of Health hereby awards a fellowship in the amount of \$46,300 (see "Award Calculation" in Section I) to ST. LOUIS UNIVERSITY in support of the above referenced project. This award is pursuant to the authority of 42 USC 242-1 and is subject to attached terms and conditions.

Acceptance of this award including attached Terms and Conditions is acknowledged by the grantee when funds are drawn down or otherwise obtained from the grant payment system.

Award recipients are responsible for reporting inventions derived or reduced to practice in the performance of work under this grant. Rights to inventions vest with the grantee organization provided certain requirements are met and there is acknowledgement of NIH support. In addition, recipients must ensure that patent and license activities are consistent with their responsibility to make unique research resources developed under this award available to the scientific community, in accordance with NIH policy. For additional information, please visit <http://www.iedison.gov>.

If you have any questions about this award, please contact the individual(s) referenced in the attachments.

Sincerely yours,



Maurice W. Johnson
Grants Management Officer
NATIONAL INSTITUTE OF NEUROLOGICAL DISORDERS AND STROKE

Attachments

cc: ASSI, ABDEL-AZIM



Be it known that

at a stated meeting of the Regents held in the City of
Toronto, September 23, 1998

Abdel-Azim Assi, Ph. D.
of Egypt

was elected a Member of the

American College of Clinical Pharmacology



R. W. Ripley
President

H. Wendler
Secretary



DEPARTMENT OF HEALTH & HUMAN SERVICES

NATIONAL INSTITUTE OF HEALTH
National Institute of Neurological
Disorders and Stroke
Office of the Director
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35 Center Drive, NIDDK Bldg
Bethesda, Maryland 20894-2068
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Fax: (301) 496-4796
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January 4, 2008

Michael Aron, MD, PhD
Department of Pharmacology
University of Washington School of Medicine
Box 357280
Seattle, WA 98195-7280

Dear Dr. Aron:

I am pleased to inform you that your application for an International Neurological Sciences Fellowship (INSF), sponsored by the National Institute of Neurological Disorders and Stroke has been approved for funding. A Notice of Research Fellowship Award will be sent to you shortly.

The INSF Program Officer, Ms. Patricia Turner and the Grants Management Specialist, Ms. Marissa Johnson, would be pleased to answer any questions you may have about the INSF award. Ms. Turner can be reached by telephone at (301) 496-4271 and by fax at (301) 495-9173. Ms. Johnson can be reached by telephone at (301) 496-7432 and by fax at (301) 492-6274. Congratulations you and wish you success in the International Neurological Sciences Fellowship Program.

Harold D. Fischback, M.D.
Director

cc: Dr. Hershkov
Ms. Turner
Ms. Johnson

DEUTSCHE AKADEMISCHE AUSTAUSCHDIENSTLEISTUNG
VON UNIVERSITÄTEN

Dr. med. habil. Axel
Dietz, Professor für
Pharmakologie
Klinik Universität
Köln, D 50974

Ich bestätige, dass Sie ein deutscher Staatsbürger sind und die Voraussetzungen für die Teilnahme an der Austauschdienstleistung erfüllen.



Diese Dienstleistung wird Ihnen im Rahmen der Austauschdienstleistung zur Verfügung gestellt. Die Kosten für Ihre Reise, Unterkunft, Verpflegung, Versicherung und andere Ausgaben sind von Ihnen zu tragen. Die Austauschdienstleistung wird Ihnen nur zur Verfügung gestellt, wenn Sie die Voraussetzungen für die Teilnahme an der Austauschdienstleistung erfüllen.

Weitere Angaben über diese Dienstleistung sind in der folgenden Tabelle zu entnehmen.

Es wird Ihnen dankbar, wenn Sie diese Dienstleistung annehmen, in der Sie Ihre Ausbildung absolvieren.

Außerdem wird ein von Ihnen zu bestimmendes Stipendium, das durch Ihre Studienanstalt oder ein anderes von Ihnen bestimmtes Institut, die durch die Austauschdienstleistung ermöglicht oder gefördert werden soll.

Ich bestätige dies.



Dr. med. habil. Axel Dietz
Professor für Pharmakologie
Klinik Universität Köln



**TO EGYPTIAN COMMITTEE FOR PROMOTION TOWARDS
THE DEGREE OF FULL PROFESSORSHIP**

THIS IS TO CONFIRM THAT DR. ABDEL-AZIM ASSI, FROM THE DEPARTMENT OF PHARMACOLOGY, SCHOOL OF MEDICINE, ASSIUT UNIVERSITY, HAS PUBLISHED THE FOLLOWING STUDIES DURING HIS WORK IN MY LABORATORY:

- Jin, W.Z., Assi, A.A., Eastman, C., Terman, G. and Chavkin, C. (2000) Synaptic plasticity contributes to opioid tolerance *in vitro*. *Soc. for Neuroscience Abstr.*, (in press).
- Assi, A.A., Jin, W.Z., and Chavkin, C. (2000) Receptor desensitization as a possible mechanism of tolerance to mu opioids. Annual CPDD conference. San Juan, Puerto Rico.
- Assi, A.-A., Jin W. and C. Chavkin (2000) Receptor desensitization as a possible mechanism of tolerance to mu opioids, *International Narcotics Research Conference Abstracts*, Wed01, p70.
- W. Jin, A.-A. Assi, G. Terman, and C. Chavkin (2000) Mu opioid desensitization shares common mechanism with LTD in the hippocampal dentate gyrus, *International Narcotics Research Conference Abstracts*, Wed13, p72.

HIS CONTRIBUTIONS WERE AS FOLLOWS:

- HE IS THE MAIN CONTRIBUTOR TO THE STUDY ENTITLED: RECEPTOR DESENSITIZATION AS A POSSIBLE MECHANISM OF TOLERANCE TO MU OPIOIDS,
- HE STUDIED THE EFFECT OF MORPHINE AND FENTANYL ON THE GRANULE CELL POPULATION RESPONSE EVOKED BY PERFORANT PATH STIMULATION,
- HE INVESTIGATED THE EFFECT OF MCPG (THE mGluR ANTAGONIST) ON OPIOID DESENSITIZATION AND SYNAPTIC PLASTICITY
- HE WORKED WITH HIS COLLEAGUES TO DETERMINE THE EFFECT OF APV (THE NMDA ANTAGONIST) ON OPIOID DESENSITIZATION.

CHARLES CHAVKIN, *ph.D.*
PROFESSOR AND SUPERVISOR OF CHAVKIN'S LABORATORY
DEPARTMENT OF PHARMACOLOGY
UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE

