

Department of Biochemistry
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PAWAN KUMAR MAURYA

OBJECTIVE: I am seeking a career where I would best use and future develop, my analytical and interpersonal skills, as well as my background and keen interest in research. My work should continuously draw upon, and to, my accumulated learning, while substantially impacting the problem at hand.

Intend to have a professional career, which would exploit my potential and skills to its maximum keeping me update of all the professional issues and evolve me as better researcher through my career.

ACHIEVEMENTS:

CONFERENCES / REFRESHER / ORIENTATION COURSES

- Paper entitled “AGE RELATED CHANGES IN THE PLASMA ANTIOXIDANT POTENTIAL” is accepted in 8th International conference on the Membrane Redox Systems and Their Role in Biological Stress and Disease. Szeged, Hungary. February-2006.
- Paper entitled “(-) EPICATECHIN MAY DELAY OXIDATION MEDIATED AGING PROCESS” is presented in 32nd Annual Conference of Association of Clinical Biochemists of India (ACBI), India (Poster presentation). December - 2005.

MEMBERSHIP

- Member of Association of Clinical Biochemists of India (ACBI)-Membership No.#S-74.

TRAINING

- Three month training in Industrial Toxicology Research Center (ITRC), Lucknow, under supervision of Dr.Sudhir K. Goel (Scientist EII).

ISOENZYMATIC ANALYSIS OF LACTATE DEHYDROGENASE

SCHOLASTIC ACHIEVEMENTS

- Qualified All India **CSIR- National Eligibility Test-Dec.2004** (Council of Scientific and Industrial Research, Govt. of India)- Roll No. 303481

- Participate in internavodaya Science Exhibition and reach upto regional level.
- First Position in M.Sc. Biochemistry.

TECHNIQUES KNOW

- Spectrophotometry & fluorometer
- Agarose and SDS-PAGE,
- Histochemical /immunohistochemical Techniques
- Enzymatic assays
- C-24 Remi, HPLC,
- Tissue Culture & Animal Handling and many molecular/Biochemical techniques.

COMPUTER SKILL

- Operating system, Design packages.
- Presentation Software, Word processing.
- Data base management, Elementary knowledge.
- Window 95, 98, 2000/XP, Prism and Origin (Graph Pad Software).
- Photoshop, Microsoft power point, MS Excel, Chemdraw.
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RESEARCH DISCRIPTION

Aging is a multifactorial process; there is enough evidence to suggest a possible relationship between life span and production of free radicals. An increased oxidative stress has been linked to a shortening of life span. Epidemiological studies show that an increased dietary consumption of foods rich in antioxidants lead to healthy life and increased life span. Human erythrocytes have been used as model systems to study aging in humans.

The present study reports the alterations in erythrocytes as a function of human age, we also report the effect of (-) epicatechin, a member of tea catechins, on alterations that occur during aging process in humans. The antioxidant effect of (-) epicatechin was comparable with L-ascorbic acid. We estimated following parameters as a function of human age.

- Flavonoid uptake by human erythrocytes.
- L-Cysteine influx and efflux studies in human erythrocytes.
- Total antioxidant capacity (FRAP assay).
- Lipid peroxidation – Malondialdehyde (MDA).
- Reduced glutathione (GSH).
- Membrane sulphhydryl group (-SH).
- Nitric oxide (NO).
- Superoxide dismutase (SOD).
- Catalase (CAT).
- Glutathione –S- Transferase (GST).

Our results indicate that an increased consumption of flavonoid rich food may be beneficial for persons of higher age group.

TEACHING EXPERIENCE

Since Sept.2003 to till date as a guest lecturer in Pathology and Physiotherapy Department, Tammana Institute, Allahabad. (Affiliated to AAIDU).

EDUCATIONAL QUALIFICATIONS

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|------------------------------------------|------------------------------------------------------------------|
| Ph.D. (Biochemistry) | 07 Nov. 2003 to till date University of Allahabad, Allahabad. |
| | ALTERATION IN ERYTHROCYTES DURING AGING IN HUMANS |
| Post Graduation (Biochemistry) | University of Allahabad, Allahabad, 2003 (69%) . |
| Graduation (Biosciences) | University of Allahabad, Allahabad, 2001 (71%) . |
| Intermediate (Biology) | Jawahar Navodaya Vidyalaya, Rae-bareli, 1997 (72%) . |
| High School | Jawahar Navodaya Vidyalaya, Rae-bareli, 1995 (71%) . |

PERSONAL DETAILS

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|----------------|----------------------------------|
| Father's Name | : Sri C.P. Maurya |
| Nationality | : Indian |
| Date of Birth | : 10 th October; 1980 |
| Gender | : Male |
| Marital Status | : unmarried |
| Passport No | : E9365540 valid till 2014. |

REFEREES

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| Dr. Bechan Sharma Professor Department of Biochemistry University of Allahabad Allahabad-211002, U.P. India. ☎+91-9415715639 Email: sharmabi@yahoo.com | Dr. S.I. Rizvi Reader Department of Biochemistry University of Allahabad Allahabad-211002, U.P. India ☎+91-9415305910 Email: rzv@rediffmail.com |
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