

BIO-DATA

1. Name and full correspondence address: **Dr. Ravi Shankar Akundi**
Associate Professor,
Faculty of Life Sciences and Biotechnology,
Room LS-312, Rajpur Road,
South Asian University,
Maidan Garhi, New Delhi – 110068. India.
2. Email and contact number(s): ravi.shankar@sau.ac.in
+91-11-24122514 (off.),
+91-9650344064 (cell)
3. Institution: SOUTH ASIAN UNIVERSITY
4. Date of Birth: 02 July 1977
5. Gender: Male
6. Category Gen/SC/ST/OBC: General
7. Whether differently abled: No

8. Academic Qualification (Undergraduate Onwards):

	Degree	Year	Subject	University/Institution	% of marks
1.	Bachelor of Science (B.Sc.)	1998	Chemistry, Biochemistry & Biotechnology	Andhra University, Visakhapatnam	77.8%
2.	Master of Science (M.Sc.)	2000	Biotechnology	Indian Institute of Technology (IIT) – Mumbai	82.3%
3.	Doctor of Philosophy (Ph.D.)	2005	Biology	Albert Ludwigs University of Freiburg, Germany	<i>Summa cum laude (thesis), magna cum laude (exam)</i>

9. Ph.D. details:

- a. Ph.D. thesis title: “Signal transduction mechanisms involved in prostaglandin E₂ (PGE₂) synthesis in primary rat glial cells and human neuroblastoma cell-line, SK-N-SH”.
- b. Guide’s name: Dr. Bernd L. Fiebich
Head, Neurochemistry Research Group
Department of Psychiatry and Psychotherapy
Hauptstrasse 5, D-79104. Freiburg. Germany.
- c. University: Albert Ludwigs University of Freiburg, Germany
- d. Year of award: 2005

10. Work Experience (in chronological order):

	Positions held	Name of the Institute	From	To	Pay Scale
1.	Postdoctoral fellow	Yale University, New Haven, USA.	03/2005	08/2008	US \$35,000 p.a.
2.	Postdoctoral scholar	University of Kentucky, Lexington, USA	10/2008	08/2012	US \$41,000 p.a.

3.	Assistant Professor	South Asian University, New Delhi, India	08/2012	Present	US \$18,000 p.a.
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11. Professional Recognition/Award/Prize/Certificate, Fellowship received by the applicant:

	Name of Award	Awarding Agency	Year
1.	Research Grant (PI; “P2 receptor-based anti-inflammatory drugs (PBAIDs): Potential therapeutic agents against sinonasal undifferentiated carcinoma”; US \$26000)	Cayman Biomedical Research Institute (CABRI), Ann Arbor, Michigan, USA	2022-24
2.	Extramural Research Grant (PI; “Investigating the role of exogenous ATP in modulating inflammation in the rodent brain”; EMR/2016/001442; ₹62,96,800)	Science and Engineering Research Board (SERB), Govt. of India	2017-21
3.	Grant-in-Aid (PI; “Investigating the role of exogenous ATP in cancer metastasis”; 37(1702)/17/EMR-II; ₹27,00,000)	Council of Scientific and Industrial Research (CSIR), Govt. of India	2017-20
4.	Institute for South Asian Studies Grant (PI; “Sickle cell anemia and its coexistence with alpha and beta thalassemia in a cohort of indigenous Tharu population of Nepal: Implications for the South Asian region”; US\$15000)	South Asian University, New Delhi, India	2016-19
5.	South Asian University Start Up Fund (PI; “P2-receptor mediated modulation of prostaglandin E2 synthesis in rodent brain”; US \$45000)	South Asian University, New Delhi, India	2013-16
6.	Seahorse Bioscience Travel Award	Seahorse Bioscience Inc., North Billerica, USA	2012
7.	Parkinson’s Action Network Scholarship	Parkinson’s Action Network Forum, Washington DC, USA	2012
8.	Heritage Post-doctoral Fellowship (PI; “Mechanisms of hypoxia-mediated white matter injury in neonatal rodent brain”; US\$40000)	American Heart Association (AHA), Dallas, USA	2006-08
9.	Graduate Aptitude Test in Engineering (GATE): Percentile 99.37 (Rank 10 th)	DST, Government of India	2000

12. Publications (*Selected list only out of a total 29 publications*)

	Author(s)	Title	Name of Journal	Vol	Page	Year
1.	Sharma RK, Singh M, Ghimeray K, Juneja P, Dev G, Pulavarthi S, Reddy SR, Akundi RS	Imidazopyridazine acetylcholinesterase inhibitors display potent anti-proliferative effects in the human neuroblastoma cell-line, IMR-32	Molecules	26	5319	2021
2.	Raj K, Akundi RS	Mutant ataxin-3 containing aggregates (MATAGGs) in spinocerebellar ataxia type 3: dynamics of the disorder	Molecular Neurobiology	58	3095	2021

3.	Sharma S, Kalra H, Akundi R	Extracellular ATP mediates cancer cell migration and invasion through increased expression of cyclooxygenase 2	Frontiers in Pharmacology	11	6172 11	2021
4.	Akter S, Sharma RK, Sharma S, Rastogi S, Fiebich BL, Akundi RS	Exogenous ATP modulates prostaglandin E2 (PGE2) release in macrophages through sustained phosphorylation of CDK9 and p38 MAPK	Journal of Leukocyte Biology	110	663	2021
5.	Agnihotri SK, Sun L, Yee BK, Shen R, Akundi RS , Zhi L, Duncan MJ, Cass WA, Bueler H	Pink1 deficiency is associated with increased deficits of adult hippocampal neurogenesis and lowers the threshold for stress-induced depression in mice	Behavioural Brain Research	363	161	2019
6.	Sharma S, Akundi RS	Mitochondria: A connecting link in the major depressive disorder jigsaw	Current Neuropharmacology	17	550	2019
7.	Sharma RK, Candelario-Jalil E, Feineis D, Bringmann G, Fiebich BL, Akundi RS	1-trichloromethyl-1,2,3,4-tetrahydro-beta-carboline (TaClo) alters cell cycle progression in human neuroblastoma cell lines	Neurotoxicity Research	32	649	2017
8.	Fiebich BL, Akter S, Akundi RS	The two-hit hypothesis for neuroinflammation: role of exogenous ATP in modulating inflammation in the brain	Frontiers in Cellular Neuroscience	8	260	2014

13. Details of Patents: None

14. Books/Reports/Chapters/General articles: None

15. Any other Information:

A. Invited talks and lectures:

S.No.	Title of the Talk	Conference	Venue and Date
1.	Molecular modulators of cyclooxygenase 2-mediated inflammation in systemic and neuronal disorders	4 th International Brain Research Organization (IBRO) – Asia Pacific Regional Committee (APRC) Advanced School	Kathmandu, Nepal (30 Apr 2024)
2.	Post-transcriptional stabilization of cyclooxygenase-2 mRNA by extracellular ATP modulates	37 th Annual Meeting of the Society for Neurochemistry India	North-Eastern Hill University (NEHU), Shillong, India (16

	inflammation		Sept 2023)
3.	Extracellular ATP modulates inflammation through increased COX-2 mRNA stabilization	6 th South Asian Biotechnology Conference	University of Dhaka, Dhaka, Bangladesh (04 Feb 2023)
4.	Exogenous ATP modulates microglial activation through sustained cyclooxygenase 2 (COX-2) synthesis	39 th Annual Meeting of Indian Academy of Neuroscience (virtual)	Indian Institute of Science, Education and Research (IISER), Kolkata (18 Dec 2021)
5.	Exogenous ATP modulates prostaglandin E2 synthesis in activated immune cells	54 th Annual Meeting of Society for Leukocyte Biology (virtual)	Silver Spring, MD, USA (15 Oct 2021)
6.	PBAIDs: Potential alternative to non-steroidal anti-inflammatory drugs	1 st Annual Conference of Neuroscience Society of Nepal	Hotel Country Villa, Nagarkot, Nepal (13 Feb 2016)
7.	Characterization of a novel mouse model for Parkinson's disease	Green Science and Technology of Global Young Researchers Workshop	Shizuoka University, Shizuoka, Japan (26 Jan 2015)

B. Professional Memberships:

S.No.	Professional Society	Membership
1	Society for Leukocyte Biology, USA	2021-2022
2	Society for Neuroscience, Washington DC, USA	2006-2022
3	International Brain Research Organization, Paris, France	2006-2022
4	Society for Neurochemistry India, Hyderabad, India	Since 2013
5	Indian Academy of Neurosciences, New Delhi, India	Since 2014
6	Association of Gerontology, India	Since 2022
7	American Society for Neurochemistry, Windermere, Florida, USA	2012-2013
8	Parkinson's Action Network Forum, Washington DC, USA	2012-2013
9	New York Academy of Sciences, New York, USA	2005-2007

C. Panelist/Workshop/Conference Organized:

- a. Chairperson, Session titled "Opportunities and Challenges for Funding in Neuroscience Research" at the one-day symposium of the Delhi Chapter of Society for Neurochemistry, India, Jamia Hamdard University, New Delhi (09 Mar 2022)
- b. Organized Symposia (virtual) "C20s in the Brain – Eicosanoids in Neuronal Health and Disease", at the 34th Annual Meeting of the Society for Neurochemistry, India, Hyderabad Central University, India (Dec 11-13, 2020)
- c. Panelist, panel discussion on "Challenges in Neuroscience Research and Funding Opportunities" at the 37th Annual Meeting of the Indian Academy of Neurosciences held at All India Institute of Medical Sciences (AIIMS), New Delhi (21 Nov 2019)
- d. Organizing Secretary, 5th South Asian Biotechnology Conference (SABC) held at South Asian University, New Delhi (Mar 14-16, 2019)
- e. Co-organizer, one-day symposium on "A Genetic Approach to Blood Disorders" together with Kathmandu Center for Genomics and Research Laboratory, at Hotel Woodland, Kathmandu, Nepal (Sep 15, 2018)
- f. Organizer, Workshop on "Mammalian Cell Culture Techniques and Cytotoxicity Assays", South Asian University (December 14-16, 2015)