

## SUPTENDRA NATH SARBADHIKARI

**Present Designation:** Founding Chair, Department of Biomedical Informatics, PSG Institute of Medical Sciences and Research, Peelamedu, Coimbatore, Tamil Nadu 641 004, India  
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**Birth :** (a) Date: 25th of DECEMBER 1965, (B) Place: CALCUTTA

NATIONALITY AND RELIGION: Indian, Hindu

**Qualifications:-** (A) ACADEMIC:

### I. EXAMINATIONS –

1. **Ph D** (Biomedical Engineering), Institute of Technology, Banaras Hindu University, 1995
2. **MBBS**, University of Calcutta, 1989

### II. Scholarships / Awards / Recognition -

- a) Awarded one of the two Scholarships available globally for undertaking the PG Module on e-health from the University of Plymouth, UK, 2009.
- b) Selected for the prestigious Health Professions Educators for South-Asia Regional Institute Fellowship at PSG Institute of Medical Sciences & Research, Coimbatore (PSG FAIMER South Asian Regional Institute) <<http://psg.faimer.googlepages.com/selectedfellows2007>>.
- c) Has extended his knowledge and expertise in developing the recommendations of the Subgroup on Telemedicine Standards, Recommendations on Guidelines, Standards and Practices for Telemedicine in India, *National Taskforce for Telemedicine in India*, Ministry of Health & Family Welfare, Government of India (July 2006).
- d) Selected as one of the fifty best teachers in the country by the Department of Atomic Energy, as part of their Golden Jubilee Celebrations in July-August 2004.
- e) “Shri Shyam Lal Saksena Memorial Award 2000-2001” from National Academy of Medical Sciences (India), for research in Biomedical Engineering.
- f) Designing & Developing syllabus on Medical Informatics for DOEACC 'C' level Course on Bioinformatics.
- g) National Scholarship (42<sup>nd</sup> Rank out of 0.25 million students in Madhyamik Pariksha, West Bengal, 1982)

### III. Other Responsibilities:

- a) Editor-in-Chief of the Indian Journal of Medical Informatics  
[\[http://www.ijmi.org/index.php/ijmi/index\]](http://www.ijmi.org/index.php/ijmi/index)
- b) Member of the International Editorial Board for the Mental Health and Physical Activity (Elsevier)  
[\[http://www.elsevier.com/wps/find/journaleditorialboard.cws\\_home/714078/editorialboard\]](http://www.elsevier.com/wps/find/journaleditorialboard.cws_home/714078/editorialboard)
- c) Chair, Education Committee, HL7 India [\[http://www.hl7india.org/news.html\]](http://www.hl7india.org/news.html)
- d) Chair of the Editorial Council of Citizendium (April 2008 – March 2009)  
[\[http://en.citizendium.org/wiki/Category:CZ\\_Editorial\\_Council\\_Members\]](http://en.citizendium.org/wiki/Category:CZ_Editorial_Council_Members)

### IV. Areas of expertise:

- a) **Requirements analysis and management for healthcare IT.**
- b) **e-learning and medical journalism.**
- c) **Clinical Decision Support Systems.**

### (B) SOME IMPORTANT PUBLICATIONS:

#### I. By **S.N.Sarbadhikari, individually:-**

1. Applying health care informatics to improve student learning, **Really Good Stuff, Medical Education**, 2008; **42**: 1117–1118.

2. How to design an effective e-learning course for medical education, *Indian Journal of Medical Informatics*. 2008; 3(1): 3: <http://ijmi.org/index.php/ijmi/article/view/y08i1a3/15> [Subsequently converted into a lecture and posted at **Supercourse**: <http://www.pitt.edu/~super1/lecture/lec35331/001.htm> ]
3. A Step-by-step Primer for using the Internet for Medical Education, *South East Asian Journal of Medical Education*, 2007, **1(1)**: 49 – 51.
4. The State of Medical Informatics in India: A Roadmap for optimal organization, *J. Medical Systems*, 2005, **29**: 125-141.
5. Basic Medical Education must include Medical Informatics, *Indian J Physiol. Pharamcol.*, 2004, **48(4)**: 395-408.
6. Let your Dreams come true through Virtual Reality (Current Topic), *J. Indian Med. Assoc.*, 1997, **95**: 190.
7. Will the Aging Computer Technology Comfort the Aging Humans?, *Speculat. Sci. Technol.* (Special Issue on the Computers in the Fight Against Aging), 1996, **19(2)**: 131 – 136.
8. A Neural Network Confirms that Physical Exercise Reverses EEG Changes in Depressed Rats, *Med. Eng. Phys.*, 1995, **17(8)**: 579 – 582.
9. Editorial on “Health Care Delivery — The Roads Not Taken!”, *J.Indian Med. Assoc.* , 1995, **93**: 329 – 330 .
10. Editorial on “Medical Informatics — Are the Doctors Ready?”, *J.Indian Med. Assoc.* , 1995, **93**: 165 – 166.
11. Does a Clinician Know Physiology? (Letter) *J.Indian Med. Assoc.* , 1994, **92(4)**:132
12. Editorial on Biomedical Engineering — Relevant or Not?, *J. Indian Med. Assoc.*,1993, **91(6)**: 145 .
13. Hypervitaminoses; *J Indian Med Assoc* 1992; **90(6)**:163-4
14. Editorial on “Rehabilitation: the ultimate aim”; *J.Indian Med. Assoc.*, 1990, **88** : 184 – 185.
15. Had run the JIMA Mediquiz in JIMA (*Journal of the Indian Medical Association*) from May 1990 to October 1991.

## II. Books:

1. **Sarbadhikari SN**, Sole Editor, *Depression and Dementia: Progress in Brain Research, Clinical Applications and Future Trends*, Nova Science Publishers, New York, USA, 2005 (ISBN: 1-59454-114-0).
2. **Sarbadhikari SN**, *A Short Introduction to Biomedical Engineering*, University Press of India Ltd. Co. (Upilco / Orient Longman) 2006 (ISBN: 81-7371-558-0). International Edition: CRC Press (2007).

## III. Chapters in Book:

1. **Sarbadhikari SN**, *Medical Informatics and Evidence-based Medicine*, In, Babu AN, Ed, *Clinical Research Methodology and Evidence-based Medicine: The Basics*, BI Publishers, New Delhi, 2008:166 – 176.
2. **Sarbadhikari SN**, *Balancing the Brain activity: Putative Links between Epileptic, Cognitive and Affective Disorders*, Chapter 5, In, Benjamin SM, Ed, *Trends in Epilepsy Research*, Nova Science Publishers, USA, 2005: 93-150 (ISBN: 1-59454-237-6).
3. **Sarbadhikari SN**, *Depression, Dementia and Dexterity: In Quest of a Denominator*, In Sarbadhikari SN, Ed, *Depression and Dementia: Progress in Brain Research, Clinical Applications and Future Trends*, Nova Science Publishers, USA, 2005: 55 – 83.
4. **Sarbadhikari S.N. & Pal S.K.**; *Automated Techniques for identifying depression from EEG*, In, Leondes C T, Ed, *Handbook of Computational Methods in Biomaterials, Biotechnology & Biomedical systems*, Kluwer Academic Publishers, 2002, Vol. 4, Chapter 3: 51–81.

#### IV. Some of the Collaborative publications:-

1. **Sarbadhikari SN** and Saha AK, Moderate exercise and chronic stress produce counteractive effects on different areas of the brain by acting through various neurotransmitter receptor subtypes: a hypothesis, *Theor. Biol. Med. Model.* 2006 Sep 23; **3**:33. [<http://www.tbiomed.com/content/3/1/33>]. "**Highly Accessed**". Featuring in **Top 10 articles of 2006, 2007 and 2008** – so far accessed by more than 11000 persons [<http://tbiomed.com/mostviewedbyyear>].
2. Kavitha S, **Sarbadhikari SN**, Rao AN. Automated Screening for Three Inborn Metabolic Disorders: A Pilot Study. *Online J Health Allied Scs.*2006; **3**:1 [<http://www.ojhas.org/issue19/2006-3-1.htm>]
3. Saha AK and **Sarbadhikari S.N.**, HIV deranges Immune System Dynamics through Stochastic Fluctuations, *Intl. J Applied Maths. Stats*, 2005, **3**: 52 – 81.
4. **Sarbadhikari S.N.** & Chakrabarty K, Chaos in the brain: a short review alluding to epilepsy, depression, exercise and lateralization, *Med. Eng. Phys.*, 2001, **23(7)**: 445–455.
5. **Sarbadhikari S.N.**, Basak J., Pal S. K. & Kundu M. K.; Noisy Fingerprint Classification with Directional FFT Features using MLP, *Neural Comput. Applic.*, 1998, **7**: 180 – 191.
6. Mitra S. K. and **Sarbadhikari S.N.**, Iterative Function System and Genetic Algorithm based EEG Compression, *Med. Eng. Phys.*,1997, **19(7)**: 605 – 617.
7. Pal S. K. and **Sarbadhikari S. N.**; Classification of distorted overlapping fingerprints with fuzzy geometrical features, *Int. J. Knowledge-based Intelligent Engg. Sys.*, 1997, **1(3)**: 120– 137.
8. Saha A.K. and **Sarbadhikari S.N.**, Immune System Functions — A simple mathematical approach, *Cybernetica*, 1997, **XL(1)**: 79 - 89.
9. Mitra S., **Sarbadhikari S.N.**, Pal S.K.; An MLP-based model for identifying qEEG in depression, *Int. J. Biomed. Comput.*, 1996, **43**: 179 – 187
10. Mandal M.K., Asthana H.S., Pandey R & **Sarbadhikari S.** ; Cerebral Laterality in Affect and Affective Illness : A Review, *J. Psychology*, 1996, **130(4)**: 447 – 459.
11. **Sarbadhikari S.N.**, Dey S. & Ray A.K.; Chronic Exercise Alters EEG Power Spectra in an Animal Model of Depression, *Ind. J. Physiol. Pharmacol.*, 1996, **40(1)**: 47– 57

#### (C) Experience:

1. Currently **Course Coordinator** for **online course on health informatics from PSG IMS & R**: <http://www.psgimsr.in/online-hi/> and also of **HL7 e-learning course from HL7 India**: <http://www.hl7india.org/news.html>
2. **Associate Professor of Biomedical Engineering**, TIFAC-CORE in Biomedical Technology, Amrita Vishwa Vidyapeetham, Amritapuri, and, Centre for Digital Health, AIMS, Kochi; **Course Coordinator** for **M.Tech. (Biomedical Engineering)** and **M.Sc. (Medical Informatics)** from July 09, 2004 to January 04, 2008.
3. **Assistant Professor**, School of Medical Science & Technology, Indian Institute of Technology, Kharagpur 721 302 from August 14, 2002 to July 6, 2004.
4. **Founder Member, Institutional Ethical Committee**, Indian Institute of Technology, Kharagpur since its inception in May 2003.
5. **Assistant Professor in Biophysics**, Department of Physiology, Sikkim Manipal Institute of Medical Sciences, Sikkim 737 102, India, from January 27, 2000 to August 12, 2002, and **Visiting Faculty**, Sikkim Manipal Institute of Technology. Also, **Coordinator, Distance Education Directorate**, Sikkim Manipal University of Health Medical and Technological Sciences, from January to August 2002.

Sarbadhikari