Name: **Dr. Bharath Holla,** MBBS, MD, PhD
Office address: Associate Professor of Psychiatry,
Department of Integrative Medicine,
National Institute of Mental Health and Neurosciences (NIMHANS),
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EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	MM/YY	FIELD OF STUDY
Bangalore Medical College and Research Institute, Bengaluru, KA, India	Bachelor of Medicine, Bachelor of Surgery; (M.B., B.S.)	03/10	Medicine
National Institute of Mental Health and Neurosciences, Bengaluru, KA, India	Doctor of Medicine (M.D.) in Psychiatry	04/14	Psychiatry
National Institute of Mental Health and Neurosciences, Bengaluru, KA, India	Post-Doctoral Fellowship in Addiction Medicine	06/15	Addiction Psychiatry
National Institute of Mental Health and Neurosciences, Bengaluru, KA, India	Doctor of Philosophy (Ph.D.) in Psychiatry	01/22	Psychiatry, Brain Imaging and Genomics

A. POSITIONS AND HONORS

A1. Position and Employment:

POSITION, INSTITUTION AND LOCATION	FROM (MM/YY)	TO (MM/YY)	Duration
Senior Resident and Clinical Post-Doctoral Fellow in Centre for Addiction Medicine, Dept. of Psychiatry, NIMHANS, Bengaluru, India	07/14	06/15	1 y
Senior Resident and PhD scholar, Wellcome Trust / DBT India Alliance Research Training Fellow, Dept. of Psychiatry, NIMHANS, Bengaluru, India	07/15	07/17	2 y
Assistant Professor of Psychiatry, Clinician Scientist, Accelerator program for Discovery in brain disorders using stem cells (ADBS), NIMHANS, Bengaluru, India	07/17	08/19	2 y
Assistant Professor of Psychiatry, Department of Integrative Medicine, NIMHANS, Bengaluru, India	08/19	06/23	3y 11m
Associate Professor of Psychiatry, Department of Integrative Medicine, NIMHANS, Bengaluru, India	07/23	Till date	Till date

A2. Awards & Honours

Funding Scholarship Award by InterAcademy Partnership (IAP) to attend the **Young Physician Leaders** (YPL) Programme at European School of Management and Technology, Berlin, Germany October 13-18, 2022	2022
INSA Medal for Young Scientists from Indian National Science Academy, New Delhi on October 6th, 2021.	2021
Early Career Investigator Award from the International Society of Psychiatric Genetics at the Virtual World Congress of Psychiatry Genetics, October 11-15, 2021	2021
Poona Psychiatrists Association Award (PPA-II) - for the best-published article by an IPS member at the 72nd Annual National Conference of Indian Psychiatric Society, 22-25th January 2020, Kolkata, WB, India	2020
Funding Scholarship Award by University of Bristol, UK to attend Mental health intergenerational transmission: Epidemiological methods for global mental health research workshop, Negombo, SL, 12-14 Feb'19.	2019
Poona Psychiatrists Association Award (PPA-II) - for the best-published article by an IPS member at the 71st Annual National Conference of Indian Psychiatric Society, 31st January to 03rd February, 2019, Lucknow, UP, India	2019
Junior Investigator Merit Award Research Society on Alcoholism (RSA) 41st Annual Scientific Meeting Jun 16 - 20, 2018. San Diego, USA	2018
International Society for Magnetic Resonance in Medicine - Educational Stipend at the 25th Annual Meeting of the ISMRM, April 22-27, 2017, Honolulu, HI USA	2017
Wellcome Trust / DBT India Alliance Research Training Fellowship Grant Award	2015
ISBRA International Travel Award at 37th Annual RSA Scientific Meeting and 17th Congress of ISBRA to be held in June 21-25, 2014, Bellevue, Washington, USA	2014

B. RESEARCH PUBLICATIONS

Selected Pubmed-indexed Journal Publications

https://pubmed.ncbi.nlm.nih.gov/?term=%28Holla%2CBharath%29OR%28%22Holla%2CB%22%5BAuthor%5D%29

Google Scholar Profile : **:** http://scholar.google.co.in/citations?user=ystafgIAAAAJ

Integrative Medicine

1. Mukhopadhyay, S., Abraham, S. E., **Holla, B.** †, Ramakrishna, K. K., Gopalakrishna, K. L., Soman, A., Chikkanna, U. C., Bharath, M. M. S., Bhargav, H., Varambally, S., & Gangadhar, B. N. (2021). Heavy Metals in Indian Traditional Systems of Medicine: A Systematic Scoping Review and Recommendations for Integrative Medicine Practice. *Journal of Alternative and Complementary Medicine (New York, N.Y.)*, *27*(11), 915–929. https://doi.org/10.1089/acm.2021.0083
2. Bhargav, H., **Holla, B.,** Ramakrishna, K. K., Shivakumar, V., Gokulakrishnan, K., Varambally, S., & Gangadhar, B. N. (2022). Yoga and Integrative Healthcare: Lessons from the National Institute of Mental Health and Neurosciences (NIMHANS) in India. *International journal of yoga*, 15(2), 150–157. https://doi.org/10.4103/ijoy.ijoy_56_22
3. Mukhopadhyay, S., **Holla, B.,** Bhargav, H., Ramakrishna, K.K., Chikkanna, U., Varambally, S., Gangadhar, B.N., 2022. Integrative Medicine as "Medicine": A Perspective. *Integrative Medicine Reports* 1, 86–94. https://doi.org/10.1089/imr.2022.0054
4. Bhargav H, Eiman N, Jasti N, More P, Kumar V, **Holla B,** Arasappa R, Rao NP, Varambally S, Gangadhar BN and Keshavan MS (2023) Composition of yoga-philosophy based mental traits (Gunas) in major psychiatric disorders: A trans-diagnostic approach. *Front. Psychol.* 14:1075060. https://doi.org/10.3389/fpsyg.2023.1075060
5. Gokulakrishnan, K., Nikhil, J., Vs, S., **Holla, B.,** Thirumoorthy, C., Sandhya, N., Nichenametla, S., Pathak, H., Shivakumar, V., Debnath, M., Venkatasubramanian, G., Varambally, S., 2022. Altered Intestinal Permeability Biomarkers in Schizophrenia: A Possible Link with Subclinical Inflammation. Ann Neurosci 29, 151–158. https://doi.org/10.1177/09727531221108849
6. Gokulakrishnan, K., Joyappa, N., Viswanath, B., Thirumoorthy, C., Narasimhan, S., Devarajan, B., Joseph, E., David, A.K.D., Sharma, S., Vasudevan, K., Sreeraj, V.S., **Holla, B.,** Shivakumar, V., Debnath, M., Venkatasubramanian, G., Varambally, S., 2023. Comparison of gut microbiome profile in patients with schizophrenia and healthy controls - A plausible non-invasive biomarker? *Journal of Psychiatric Research. https://doi.org/10.1016/j.jpsychires.2023.05.021*
7. Ramakrishna, K.K., Bhargav, H., **Holla, B.,** Chikkanna, U., Jasti, N., Kumar, S., Varambally, S., Gangadhar, B.N., 2023. Transforming Indian Healthcare: A Systemic Integrative Healthcare Model at NIMHANS for Advancing Evidence-Based Medicine as Envisioned in Prime Minister Modi's Mann Ki Baat. *Journal of Research in Ayurvedic Sciences 7, 19. https://doi.org/10.4103/jras.jras_105_23*

Population Neuroscience:

8. Bethlehem, R.A.I., Seidlitz, J., White, S. R., Vogel, J. W., Anderson, K. M., Adamson, C., Adler, S., Alexopoulos, G. S., Anagnostou, E., Areces-Gonzalez, A., Astle, D. E., Auyeung, B., Ayub, M., Ball, G., Baron-Cohen, S., Beare, R., Bedford, S. A., Benegal, V., Beyer, F., … Alexander-Bloch, A. F. (2021). Brain charts for the human lifespan. *Nature*. https://doi.org/10.1101/2021.06.08.447489 **Open-source Software Web Tool:** www.brainchart.io
9. **Holla, B.** †, Seidlitz, J., Bethlehem, R.A.I., & Schumann, G. (2020). Population normative models of human brain growth across development. *Science Bulletin*, *65*(22), 1872–1873. https://doi.org/10.1016/j.scib.2020.08.040
10. **Holla, B.** †, Taylor, P. A., Glen, D. R., Lee, J. A., Vaidya, N., Mehta, U. M., Venkatasubramanian, G., Pal, P. K., Saini, J., Rao, N. P., Ahuja, C. K., Kuriyan, R., Krishna, M., Basu, D., Kalyanram, K., Chakrabarti, A., Orfanos, D. P., Barker, G. J., Cox, R. W., … Benegal, V. (2020). A series of five population-specific Indian brain templates and atlases spanning ages 6-60 years. *Human Brain Mapping*, *41*(18), 5164–5175. https://doi.org/10.1002/hbm.25182
11. Zugman, A., Alliende, L.M., Medel, V., Bethlehem, R.A.I., Seidlitz, J., Ringlein, G., Arango, C., Arnatkevičiūtė, A., Asmal, L., Bellgrove, M., Benegal, V., Bernardo, M., Billeke, P., Bosch-Bayard, J., Bressan, R., Busatto, G.F., Castro, M.N., Chaim-Avancini, T., Compte, A., Costanzi, M., Czepielewski, L., Dazzan, P., de la Fuente-Sandoval, C., Di Forti, M., Díaz-Caneja, C.M., María Díaz-Zuluaga, A., Du Plessis, S., Duran, F.L.S., Fittipaldi, S., Fornito, A., Freimer, N.B., Gadelha, A., Gama, C.S., Garani, R., Garcia-Rizo, C., Gonzalez Campo, C., Gonzalez-Valderrama, A., Guinjoan, S., **Holla, B.,** Ibañez, A., Ivanovic, D., Jackowski, A., Leon-Ortiz, P., Lochner, C., López-Jaramillo, C., Luckhoff, H., Massuda, R., McGuire, P., Miyata, J., Mizrahi, R., Murray, R., Ozerdem, A., Pan, P.M., Parellada, M., Phahladira, L., Ramirez-Mahaluf, J.P., Reckziegel, R., Reis Marques, T., Reyes-Madrigal, F., Roos, A., Rosa, P., Salum, G., Scheffler, F., Schumann, G., Serpa, M., Stein, D.J., Tepper, A., Tiego, J., Ueno, T., Undurraga, J., Undurraga, E.A., Valdes-Sosa, P., Valli, I., Villarreal, M., Winton-Brown, T.T., Yalin, N., Zamorano, F., Zanetti, M.V., cVEDA, Winkler, A.M., Pine, D.S., Evans-Lacko, S., Crossley, N.A., 2023. Country-level gender inequality is associated with structural differences in the brains of women and men. Proc Natl Acad Sci U S A 120, e2218782120. https://doi.org/10.1073/pnas.2218782120

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12. **Holla, B.**, Biswal, J., Ramesh, V., Shivakumar, V., Bharath, R. D., Benegal, V., Venkatasubramanian, G., Chand, P. K., & Murthy, P. (2020). Effect of prefrontal tDCS on resting brain fMRI graph measures in Alcohol Use Disorders: A randomized, double-blind, sham-controlled study. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*, *102*, 109950. https://doi.org/10.1016/j.pnpbp.2020.109950
13. **Holla, B.**[†], Gowda, G. S., Prabhu, L., Baby, S., Viswanath, B., Chand, P., & Murthy, P. (2015). High doses of Baclofen as suicide attempt in patients with alcohol use disorders—A serious concern. *Asian Journal of Psychiatry*, *17*, 99–100. https://doi.org/10.1016/j.ajp.2015.06.015
14. **Holla, B.**, Karthik, S., Biswal, J., Viswanath, B., Jayarajan, D., Bharath, R. D., Venkatasubramanian, G., & Benegal, V. (2018). Brain Functional Magnetic Resonance Imaging Cue-reactivity Can Predict Baclofen Response in Alcohol Use Disorders. *Clinical Psychopharmacology and Neuroscience: The Official Scientific Journal of the Korean College of Neuropsychopharmacology*, *16*(3), 290–301. https://doi.org/10.9758/cpn.2018.16.3.290
15. **Holla, B.**, Viswanath, B., Agarwal, S. M., Kalmady, S. V., Maroky, A. S., Jayarajan, D., Bharath, R. D., Venkatasubramanian, G., & Benegal, V. (2014). Visual Image-Induced Craving for Ethanol (VICE): Development, Validation, and a Pilot fMRI Study. *Indian Journal of Psychological Medicine*, *36*(2), 164–169. https://doi.org/10.4103/0253-7176.130984
16. Narasimha, V. L., Arvind, B. A., **Holla, B.,** Tadepalli, R., Kandasamy, A., & Murthy, P. (2022). Practice and attitude of doctors towards patients with substance use: A study from south India. *Asian journal of psychiatry*, 77, 103247. Advance online publication. https://doi.org/10.1016/j.ajp.2022.103247
17. Oomer, F., Ghosh, A., Ahuja, C. K., Basu, D., **Holla, B.,** & Avasthi, A. (2022). Resting-state network connectivity in cannabis-induced psychosis: Is it different from first episode schizophrenia with heavy cannabis use?. *Asian journal of psychiatry*, 75, 103201. https://doi.org/10.1016/j.ajp.2022.103201
18. Shukla, S., Ghosh, A., Ahuja, C. K., Basu, D., & **Holla, B.** (2021). An instrument for visual cue associated craving of HEroin (IV-CACHE): A preliminary functional neuroimaging-based study of validity and reliability. *Indian Journal of Psychiatry*, *63*(5), 448–455. https://doi.org/10.4103/indianjpsychiatry.indianjpsychiatry_1391_20

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19. Sharma, E., Vaidya, N., Iyengar, U., Zhang, Y., **Holla, B.**, Purushottam, M., Chakrabarti, A., Fernandes, G. S., Heron, J., Hickman, M., Desrivieres, S., Kartik, K., Jacob, P., Rangaswamy, M., Bharath, R. D., Barker, G., Orfanos, D. P., Ahuja, C., Murthy, P., … cVEDA Consortium. (2020). Consortium on Vulnerability to Externalizing Disorders and Addictions (cVEDA): A developmental cohort study protocol. *BMC Psychiatry*, *20*(1), 2. https://doi.org/10.1186/s12888-019-2373-3
20. Vaidya, N., **Holla, B.,** Heron, J., Sharma, E., Zhang, Y., Fernandes, G., Iyengar, U., Spiers, A., Yadav, A., Das, S., Roy, S., Ahuja, C.K., Barker, G.J., Basu, D., Bharath, R.D., Hickman, M., Jain, S., Kalyanram, K., Kartik, K., Krishna, M., Krishnaveni, G., Kumaran, K., Kuriyan, R., Murthy, P., Papadopoulos Orfanos, D., Purushottam, M., Kurpad, S.S., Singh, L., Singh, R., Subodh, B.N., Toledano, M., Walter, H., Desrivières, S., Chakrabarti, A., Benegal, V., Schumann, G., Consortium on Vulnerability to Externalizing Disorders and Addictions (cVEDA), 2023. Neurocognitive Analysis of Low-level Arsenic Exposure and Executive Function Mediated by Brain Anomalies Among Children, Adolescents, and Young Adults in India. JAMA Netw Open 6, e2312810. https://doi.org/10.1001/jamanetworkopen.2023.12810
21. Sharma, E., Ravi, G. S., Kumar, K., Thennarasu, K., Heron, J., Hickman, M., Vaidya, N., **Holla, B.,** Rangaswamy, M., Mehta, U. M., Krishna, M., Chakrabarti, A., Basu, D., Nanjayya, S. B., Singh, R. L., Lourembam, R., Kumaran, K., Kuriyan, R., Kurpad, S. S., Kartik, K., … cVEDA Consortium (2023). Growth trajectories for executive and social cognitive abilities in an Indian population sample: Impact of demographic and psychosocial determinants. *Asian journal of psychiatry*, 82, 103475. Advance online publication. https://doi.org/10.1016/j.ajp.2023.103475
22. Zhang, Y., Vaidya, N., Iyengar, U., Sharma, E., **Holla, B.**, Ahuja, C. K., Barker, G. J., Basu, D., Bharath, R. D., Chakrabarti, A., Desrivieres, S., Elliott, P., Fernandes, G., Gourisankar, A., Heron, J., Hickman, M., Jacob, P., Jain, S., Jayarajan, D., … c-VEDA consortium. (2020). The Consortium on Vulnerability to Externalizing Disorders and Addictions (c-VEDA): An accelerated longitudinal cohort of children and adolescents in India. *Molecular Psychiatry*, *25*(8), 1618–1630. https://doi.org/10.1038/s41380-020-0656-1
23. Basu, D., Ghosh, A., Naskar, C., Balachander, S., Fernandes, G., Vaidya, N., Kumaran, K., Krishna, M., Barker, G. J., Sharma, E., Murthy, P., **Holla, B.,** Jain, S., Orfanos, D. P., Kalyanram, K., Purushottam, M., Bharath, R. D., Varghese, M., Thennarasu, K., Chakrabarti, A., … Benegal, V. (2022). Risk clustering and psychopathology from a multi-center cohort of Indian children, adolescents, and young adults. *Development and psychopathology,* 1–9. https://doi.org/10.1017/S0954579422000050
24. Fernandes, G. S., Spiers, A., Vaidya, N., Zhang, Y., Sharma, E., **Holla, B.**, Heron, J., Hickman, M., Murthy, P., Chakrabarti, A., Basu, D., Subodh, B. N., Singh, L., Singh, R., Kalyanram, K., Kartik, K., Kumaran, K., Krishnaveni, G., Kuriyan, R., … Benegal, V. (2021). Adverse childhood experiences and substance misuse in young people in India: Results from the multisite cVEDA cohort. *BMC Public Health*, *21*(1), 1920. https://doi.org/10.1186/s12889-021-11892-5
25. Fernandes, G., Fernandes, M., Vaidya, N., De Souza, P., Plotnikova, E., Geddes, R., **Holla, B.**, Sharma, E., Benegal, V., & Choudhry, V. (2021). Prevalence of child maltreatment in India and its association with gender, urbanisation and policy: A rapid review and meta-analysis protocol. *BMJ Open*, *11*(8), e044983. https://doi.org/10.1136/bmjopen-2020-044983
26. Gazula, H., **Holla, B.**[†*], Zhang, Z., Xu, J., Verner, E., Kelly, R., Jain, S., Bharath, R. D., Barker, G. J., Basu, D., Chakrabarti, A., Kalyanram, K., Kumaran, K., Singh, L., Kuriyan, R., Murthy, P., Benega, V., Plis, S. M., Sarwate, A. D., … Calhoun, V. D.

(2021). Decentralized Multisite VBM Analysis During Adolescence Shows Structural Changes Linked to Age, Body Mass Index, and Smoking: A COINSTAC Analysis. *Neuroinformatics*, *19*(4), 553–566. https://doi.org/10.1007/s12021-020-09502-7

27. Gazula H, Rootes-Murdy K, **Holla B,** Basodi S, Zhang Z, Verner E, et al. Federated Analysis in COINSTAC Reveals Functional Network Connectivity and Spectral Links to Smoking and Alcohol Consumption in Nearly 2,000 Adolescent Brains. Neuroinformatics. 2022 Nov 25; https://doi.org/10.1007/s12021-022-09604-4
28. **Holla, B.** †, Bharath, R. D., Venkatasubramanian, G., & Benegal, V. (2019). Altered brain cortical maturation is found in adolescents with a family history of alcoholism. *Addiction Biology*, *24*(4), 835–845. https://doi.org/10.1111/adb.12662
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30. Thapaliya, B., Ray, B., Farahdel, B., Suresh, P., Sapkota, R., **Holla, B.,** Mahadevan, J., Chen, J., Vaidya, N., Perrone-Bizzozero, N., Benegal, V., Schumann, G., Calhoun, V., Liu, J., 2023. Cross-continental environmental and genome-wide association study on children and adolescent anxiety and depression. Res Sq rs.3.rs-2744140. https://doi.org/10.21203/rs.3.rs-2744140/v1

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32. Someshwar, A., **Holla, B.***, Pansari Agarwal, P., Thomas, A., Jose, A., Joseph, B., Raju, B., Karle, H., Muthukumaran, M., Kodancha, P. G., Kumar, P., Reddy, P. V., Kumar Nadella, R., Naik, S. T., Mitra, S., Mallappagiri, S., Sreeraj, V. S., Balachander, S., Ganesh, S., … ADBS Consortium. (2020). Adverse childhood experiences in families with multiple members diagnosed to have psychiatric illnesses. *The Australian and New Zealand Journal of Psychiatry*, *54*(11), 1086–1094. https://doi.org/10.1177/0004867420931157
33. Sreeraj, V. S., **Holla, B.**, Ithal, D., Nadella, R. K., Mahadevan, J., Balachander, S., Ali, F., Sheth, S., Narayanaswamy, J. C., Venkatasubramanian, G., John, J. P., Varghese, M., Benegal, V., Jain, S., Reddy, Y. J., ADBS Consortium, & Viswanath, B. (2021). Psychiatric symptoms and syndromes transcending diagnostic boundaries in Indian multiplex families: The cohort of ADBS study. *Psychiatry Research*, *296*, 113647. https://doi.org/10.1016/j.psychres.2020.113647
34. Sreeraj, V. S., Puzhakkal, J. C., **Holla, B.**, Nadella, R. K., Sheth, S., Balachander, S., Ithal, D., Ali, F., Viswanath, B., Muralidharan, K., Venkatasubramanian, G., John, J. P., Benegal, V., Murthy, P., Varghese, M., Reddy, Y. J., Jain, S., & Accelerator Program for Discovery in Brain disorders using Stem cells (ADBS) Consortium. (2021). Cross-diagnostic evaluation of minor physical anomalies in psychiatric disorders. *Journal of Psychiatric Research*, *142*, 54–62. https://doi.org/10.1016/j.jpsychires.2021.07.028
35. Sukumaran, S. K., Paul, P., Guttal, V., **Holla, B.,** Vemula, A., Bhatt, H., Bisht, P., Mathew, K., Nadella, R. K., Varghese, A. M., Kalyan, V., Purushottam, M., Jain, S., Consortium, A., Sud, R., & Viswanath, B. (2022). Abnormalities in the migration of neural precursor cells in familial bipolar disorder. *Disease Models & Mechanisms*, *15*(10), dmm049526. https://doi.org/10.1242/dmm.049526
36. Ali, F., Sreeraj, V. S., Nadella, R. K., **Holla, B.**, Mahadevan, J., Ithal, D., Balachander, S., Viswanath, B., Venkatasubramanian, G., John, J. P., Reddy, Y. C. J., & Jain, S. (2021). Estimating the familial risk of psychiatric illnesses: A review of family history scores. *Asian Journal of Psychiatry*, *56*, 102551. https://doi.org/10.1016/j.ajp.2021.102551
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38. Lakkireddy, S. P., Balachander, S., Dayalamurthy, P., Bhattacharya, M., Joseph, M. S., Kumar, P., Kannampuzha, A. J., Mallappagari, S., Narayana, S., Alexander, A. C., Muthukumaran, M., Sheth, S., Puzhakkal, J. C., Ramesh, V., Thatikonda, N. S., Selvaraj, S., Ithal, D., Sreeraj, V. S., Mahadevan, J., **Holla, B.,** … Viswanath, B. (2022). Neurocognition and its association with adverse childhood experiences and familial risk of mental illness. *Progress in neuro-psychopharmacology & biological psychiatry*, 119, 110620. https://doi.org/10.1016/j.pnpbp.2022.110620
39. Bhalerao, G. V., Parekh, P., Saini, J., Venkatasubramanian, G., John, J. P., & ADBS consortium. (2021). Systematic evaluation of the impact of defacing on quality and volumetric assessments on T1-weighted MR-images. *Journal of Neuroradiology = Journal De Neuroradiologie*, S0150-9861(21)00055-9. https://doi.org/10.1016/j.neurad.2021.03.001
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