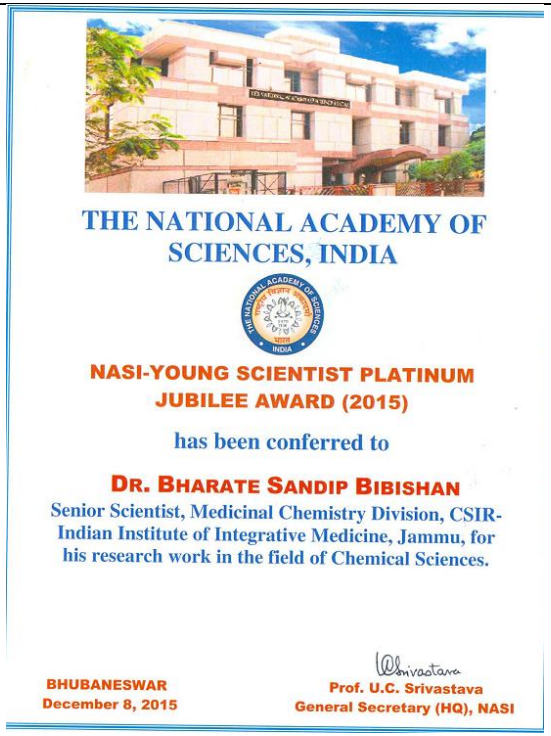
Dr. Sandip B. Bharate

c) Statement of research achievements, if any, on which any award has already been received by the applicant. Please also upload brief citation(s) on the research work(s) for which the applicant has already received the award(s) (not to exceed 2000 words)

Award	Research achievements	Citation
NASI Platinum Jubilee Young Scientist Award 2015	• Significant research efforts on natural products driven drug discovery: The NCE leads were discovered via medicinal chemistry on NP scaffolds (publications listed below, sr no 1, 2, 5,7,8). The identified leads were validated in animal models. • New synthetic methods were developed for medicinally important scaffolds (publications listed below, sr no 3,4,6) 1. Jain SK; Singh S; Khajuria A; Guru SK; Joshi P; Meena S; Nadkarni J; Singh A; Bharate SS; Bhushan S; **Bharate SB***; Vishwakarma RA. Pyrano-isochromanones as IL-6 inhibitors: Synthesis, in-vitro and in-vivo anti-arthritic activity. *J. Med. Chem.*, 2014, *57*, 7085−7097 2. Mahale S; **Bharate SB;*** Manda S; Joshi P; Bharate SS; Jenkins PR; Vishwakarma RA; Chaudhuri B. Biphenyl-4-carboxylic acid [2-(1H-indol-3-yl)-ethyl]-methylamide (CA224), a non-planar analog of fascaplysin inhibits Cdk4 and tubulin polymerization: Evaluation of in	 THE NATIONAL ACADEMY OF SCIENCES, INDIA NASI-YOUNG SCIENTIST PLATINUM JUBILEE AWARD (2015) has been conferred to DR. BHARATE SANDIP BIBISHAN Senior Scientist, Medicinal Chemistry Division, CSIR-Indian Institute of Integrative Medicine, Jammu, for his research work in the field of Chemical Sciences. BHUBANESWAR December 8, 2015 Prof. U.C. Srivastava General Secretary (HQ), NASI The award conferred for developing new methods for medicinally important compounds/ natural product scaffolds.

	vitro and in vivo anticancer activity. *J. Med. Chem.*., 2014, *57*, 9658-9672. 3. Mudududdla R; Sharma R; Abbat S; Bharatam PV; Vishwakarma RA; **Bharate SB*** Synthesis of 2-phenylnaphthalenes from styryl-2-methoxybenzenes. *Chem. Commun.*., **2014,** *50*, 12076-12079 4. **Bharate SB**;* Mudududdla R; Bharate JB; Battini N; Battula S; Yadav RR; Singh B; Vishwakarma RA. Tandem one-pot synthesis of flavans by recyclable silica-$HClO_4$ catalyzed Knoevenagel condensation and [4+2]-Diels-Alder cycloaddition. *Org. Biomol. Chem., 2012,* 10, 5143–5150 5. **Bharate SB**;* Manda S; Joshi P; Singh B; Vishwakarma RA. Total synthesis and anti-cholinesterase activity of marine-derived bis-indole alkaloid fascaplysin. *Med. Chem. Commun.*., 2012, *3*, 1098-1103 6. Mudududdla R; Jain SK; Bharate JB; Gupta AP; Singh B; Vishwakarma RA; **Bharate SB***. Ortho-Amidoalkylation of phenols via tandem one-pot approach involving oxazine intermediate. *J. Org. Chem.*., 2012, *77*, 8821-8827 7. **Bharate SB;*** Yadav RR; Khan SI; Tekwani BL; Jacob MR; Khan IA; Vishwakarma RA. Meridianin G and its analogs as antimalarial agents. *Med. Chem. Commun.*., 2013, 4, 1042-1048	

	8. Jain SK; Pathania AS; Meena S; Sharma R; Sharma A; Singh B; Gupta BD; Bhushan S; **Bharate SB;*** Vishwakarma RA. Semisynthesis of Mallotus B from Rottlerin: Evaluation of Cytotoxicity and Apoptosis-inducing Activity. *J. Nat. Prod.*, 2013, *76*, 1724−1730	
CSIR Young Scientist Award 2016	Medicinal chemistry efforts to discover kinase inhibitors (Publication, number 1,2) and development of new synthetic methods (publications, sr no. 3,4). 1. Mahale S; **Bharate SB;*** Manda S; Joshi P; Bharate SS; Jenkins PR; Vishwakarma RA; Chaudhuri B. Biphenyl-4-carboxylic acid [2-(1H-indol-3-yl)-ethyl]-methylamide (CA224), a non-planar analog of fascaplysin inhibits Cdk4 and tubulin polymerization: Evaluation of in vitro and in vivo anticancer activity. *J. Med. Chem.*, 2014, *57*, 9658-9672. 2. Yadav RR; Sharma S; Joshi P; Wani A; Vishwakarma RA; Kumar A; **Bharate SB*** Meridianin derivatives as potent Dyrk1A inhibitors and neuroprotective agents. *Bioorg. Med. Chem. Lett.* 2015, *25*, 2948-2952 3. Bharate JB; Abbat S; Sharma R; Bharatam PV; Vishwakarma RA; **Bharate SB*** Cobalt (II) catalyzed C(sp)-H bond functionalization of alkynes with phenylhydrazines: A facile access to diaryl 1,2-diketones. *Org. Biomol. Chem.*, 2015, *13*, 5235-5242	 वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद, भारत COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, INDIA सीएसआईआर युवा वैज्ञानिक पुरस्कार CSIR YOUNG SCIENTIST AWARD 2016 प्रशस्ति/CITATION डॉ. संदिप बी भराटे / Dr Sandip B Bharate रसायन विज्ञान में वर्ष 2016 का सीएसआईआर युवा वैज्ञानिक पुरस्कार सीएसआईआर-भारतीय समवेत औषध संस्थान, जम्मू के डॉ. संदिप बी भराटे को नए काइनेज़ निरोधकों की खोज करने और औषधीय महत्व वाले महत्वपूर्ण विषमचक्रीय अणुओं के लिए सम्श्लिष्ट नयाचार विकसित करने हेतु उनके महत्वपूर्ण योगदान के लिए प्रदान किया गया है। The CSIR Young Scientist Award for the year 2016 in Chemical Sciences has been awarded to Dr Sandip B Bharate of CSIR - Indian Institute of Integrative Medicine, Jammu, for his significant contributions towards discovering new kinase inhibitors and also for developing synthetic protocols for important heterocyclic molecules of medicinal importance. (हर्ष वर्धन) (Harsh Vardhan) उपाध्यक्ष / Vice President वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद और मंत्री, विज्ञान एवं प्रौद्योगिकी और पृथ्वी विज्ञान Council of Scientific & Industrial Research and Minister for Science & Technology and Earth Sciences (गिरीश साहनी) (Girish Sahni) महानिदेशक / Director General वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद एवं सचिव, वैज्ञानिक और औद्योगिक अनुसंधान विभाग Council of Scientific & Industrial Research and Secretary, Department of Scientific & Industrial Research नई दिल्ली, 26 सितम्बर 2016 New Delhi, 26 September 2016

	4. Bharate JB; Abbat S; Bharatam PV; Vishwakarma RA; **Bharate SB*** CuBr catalyzed aerobic oxidative coupling of 2-aminopyridines with cinnamaldehydes: Direct access to 3-formyl-2-phenyl-imidazo[1,2-a]pyridines. *Org. Biomol. Chem.*, 2015, *13*, 7790-7794	
OPPI Young Scientist Award 2019	For the discovery, preclinical development and out-licensing the Saffron based nutraceutical product to the industry. • Bharate SS; Kumar V; Singh GD; Singh A; Gupta M; Singh D; Kumar A; Vishwakarma RA; **Bharate SB*.** Preclinical development of *Crocus sativus* based botanical lead IIIM-141 for Alzheimer's disease: Chemical standardization, efficacy, formulation development, pharmacokinetics and safety pharmacology. *ACS Omega*, 2018, 3, 9572−9585 • Batarseh YS; Bharate SS; Kumar V; Kumar A; Vishwakarma RA; **Bharate SB**; Kaddoumi A. *Crocus sativus* Extract Tightens the Blood-Brain Barrier, Reduces Amyloid β Load and Related Toxicity in 5XFAD Mice. *ACS Chem. Neurosci.*, 2017, 8, 1756-1766	**Winner of OPPI Young Scientist Award 2019** 9 messages **DG OPPI** <dg@indiaoppi.com> Thu, Jul 18, 2019 at 12:29 PM To: "sbharate@iiim.ac.in" <sbharate@iiim.ac.in> Cc: "Madhav.Welling@svkm.ac.in" <Madhav.Welling@svkm.ac.in>, "dgcsir@csir.res.in" <dgcsir@csir.res.in>, "pb@iisc.ac.in" <pb@iisc.ac.in>, "vc@jamiahamdard.ac.in" <vc@jamiahamdard.ac.in>, Ramesh Panchagnula <rpanchagnula@nektar.com>, "kgap@rediffmail.com" <kgap@rediffmail.com>, Kanchana TK <kanchana.tk@indiaoppi.com>, Bhavna Singh <bhavna.singh@indiaoppi.com>, Carolina Dsa <carolina.dsa@indiaoppi.com>, Clara Rodricks <clara.rodricks@indiaoppi.com>, Shreyas Kale <shreyas.kale@indiaoppi.com> **Dr Sandip B Bharate** Principal Scientist Medicinal Chemistry Division CSIR - Indian Institute of Integrative Medicine Jammu 180001 Dear Dr Bharate, Congratulations on winning the **OPPI Young Scientist Award 2019.** Organisation of Pharmaceutical Producers of India (OPPI) has instituted the Scientists, Young Scientists and Women Scientists Awards to recognise excellence in research from Indian scientists who have carried out original research in the field of pharmaceutical sciences. The Award is a trophy and monetary instrument of Rs.1,00,000/- and it will be presented at the **Health Dialogue 2019 on Wednesday, August 21, 2019 at Taj Palace, Delhi**. The audience consists of Government representatives, global healthcare experts, policy professionals, number of representatives from the pharmaceutical industry, patient groups, media and representatives from the healthcare industry.