Major Activities of the Institute

Medicinal Plant Research

Drug Standardization Research

Pharmacological Research

Any other assignment of National Importance related to Research and Development in Ayurveda

Details of Intra-Mural Research Projects

Medicinal Plant Research

Department	Ongoing Project	Completed Project
Pharmacy	Developing Quality Standards for selected Arka Formulations	1. Ethno-medicinal Survey of Plants Used in Various Diseases by Tribe of Thandarai, Chengalpattu, Kancheepuram District, Tamilnadu 2. Developing Quality Standards for selected Extra-pharmacopoeial drugs collected from Irula tribes of Thandarai, Kancheepuram District, Tamilnadu. 3. Documentation of Life Profiles of Luminaries of Ayurveda - Vaidyaratna Captain G Srinivasa Murthy 4. Documentation of Life Profiles of Luminaries of Ayurveda - Ms Savita Satakopan 5. Documentation of Life profiles of Admirable Personalities to Transform Ayurveda (APTA)'- Padmashri Dr.V.Narayanaswamy. 6. 'Documentation of Life profiles of Admirable Personalities to Transform Ayurveda (APTA)'- Aryavaidyan P V Raghava Varier 7.'Clinical evaluation of Ayurvedic Formulations Shatavari Guda and Triphala kashaya in Swethapradara (leucorrhoea) 8. EMR Project funded by NMPB "Establishment of Herbal Garden and Nursery centre at RARILSD, Poojapura, Thiruvananthapuram"
Botany/ Pharmcognosy	1. Development of Quality standards for Useful Parts of Selected Medicinal Plants of Ayurveda (IPS0033 2. Development and Digitalization of Authentic Ayurvedic Raw Drugs and Herbarium for the Medicinal Plants Appearing in Ayurvedic Formularies of India in Mandatory Drug Testing Laboratories of CCRAS. (IPS0027) 3. Develoment of Quality Standards of Elsholtzia Species	1. Developing Pharmacognostical Standards for some Ambiguous Ayurvedic Drugs (*Sandigdha Dravyas*) Appearing in the Ayurvedic Formularies, Parts I to III. (IPS0013) 2. Pharmacognostical Evaluation of Medicinal Plants cited in Ayurvedic Fromulary of Indis Excluding the plants Mentioned in Ayurvedic Pharmacopoeia of India- Part –I 3. Pharmacognostical Evaluation of Medicinal Plants cited in Ayurvedic Fromulary of Indis Excluding the plants Mentioned in Ayurvedic

	and assessment of Efficacy inGastric Inflammatory Conditions (CPS0002) 4. Medico-Ethnobotanical Surveys in Kolli Malai and Pacha Malai and preparation of Monographs. (IBO0066)	Pharmacopoeia of India- Part –II. (IPS0014) 4. Photographic Atlas on Macro-microscopic Characteristics of Medicinal Plants Listed in Ayurvedic Pharmacopoeia of India, Part-I, Volume – II. (IPS0019) 5. Development of drug Master file and dossier on Fruits of *Emblica officinalis* (Farm:Phyllanthaceae) for Important Promising Medicinal Plants Based on Leads from Ayurveda & Contemporary Research. (IPS0027) 6. Development of Quality Standards of Selected Extra-pharmacopoeial Drugs (Anukta Dravyas) Used in Local Health Traditions Collected from Different Regions of India. (IPS0028) 7. Anthology of Pharmacognostical Research Outcomes of CCRAS on Selected Medicinal Plants of Ayurveda.

Drug Standardization Research

Department	Ongoing Project	Completed Project
Chemistry	1. Development of quality standards & SOP with marker-based analysis and shelf-life study of four medicinally important classical ayurvedic formulations 2. Isolation of Marker Compounds and Development of Marker Compound Library from four Selected Ayurvedic Medicinal Plants (Kancanara,Asthisrnkhala, Puskara & Lajjalu) 3. Phytochemical investigation of hydro-alcoholic extractives with different ratios of selected Kvatha formulations 4. Pharmaceutical Development and Standards for Formulation AYUSH-64 (Duration: 03 year, 2021-2024) 5. Development of Quality Standards, Estimation of	1. Estimation of Calcium and Trace minerals in Sudhavarga drugs of Ayurveda. 2. Formulation of Drug Master File and Dossier for important promising medicinal plant Emblica officinalis (Phyllanthaceae) based on leads from Ayurveda and contemporary research 3. Pharmacognostical Evaluation of Medicinal plants cited in Ayurvedic Formulary of India, Excluding the plants mentioned in API" Part-II"

	Markers, and Shelf-Life Study of Kvatha Curna Formulations (Duration: 03 years) 2023-2026 6. Evaluation of Seasonal and Geographical Variation on Phytoconstituents/Marker Compounds in Selected Ayurvedic Medicinal Plants (Duration 02 years) 2023-2025. 7. Comparative phytochemical evaluation of Ht.Wd. with small branches, leaf, and st.bark of common medicinal plants used in Ayurveda (Duration 02 years) 2024-2026. 8. Nutritional profiling, Estimation of marker of *Balya* Drugs'' 9. Development of Quality Standards of Selected Extra-Pharmacopoeial Drugs (AnuktaDravyas) used in Local Health Traditions collected from different regions of India. 10. Development of Quality Standards, Estimation of Markers and Accelerated Shelf-Life Studies of Guducyadi, Caturbhadra and Amrtottara Kvatha Curna Formulations. 11. Isolation of Markers Compound from Ayurvedic Plants and Development of Marker Compound Library	

Pharmacological Research

Department	Ongoing Project	Completed Project
Pharmacology	1. Development of Drug Master file and Dossier on fruit of Emblica officinalis for promising medicinal plants based on leads for Ayurveda and contemporary research. Pharmacology part. 2. Cardioprotective Effect of Pushkara Guggulu on Experimentally Induced Myocardial Infarction in Rats, instruments purchased, order placed for procurement of animals.	1. Effect of Haritkadi yoga on middle cerebral artery occlusion ischemic-reperfusion injury and its safety in rats. 2. Acute and 90-day repeated dose oral toxicity study of Coded drug AYUSH-PK Avaleha 3. Acute and 90-day repeated dose oral toxicity study of Coded drug AYUSH-SDM. 4. Evaluation of Sveta Parpati for its curative and preventive action in the Urolithiasis experimental study in rats.

	3. Development of Madhuca longifolia (Flower) based food recipe (Product development) and its nutritional,toxicity, efficacy and bioavailability studies 4. Toxicity profile of Tribhuvana Kirti Rasa in experimental animals. 5. Acute and chronic (180 days) oral toxicity study of coded drug AYUSH RP 6. Acute and Chronic (180 days) repeated dose oral toxicity study of Nimbatitkam 7. Acute and 180-days repeated dose oral toxicity study of Ayush Balrakshak Lehyam	5. Preclinical Evaluation (Toxicity and efficacy profile) of an Ayurvedic herbal formulation, Vaisvanara Churna used in the treatment of Rheumatoid arthritis. 6. Acute and 90-day repeated dose oral toxicity study of Coded drug AYUSH-HR 7. Biochemical evaluation of the Anti-atherosclerotic activity of Premna integrifolia Linn. (Agnimantha) in experimental animal model. 8. In vitro and in vivo nephroprotective evaluation of AYUSH K1 extract. 9. In-vitro and in-vivo evaluation of anti-migraine activity of AYUSH-M3. 10. Anti-atherosclerotic activity of Hridhayarnava Rasa against atherosclerosis in animal model. 11. A Biochemical role of AYUSH-PTK an Ayurvedic formulation against Anti-tubercular Drug-Induced Hepatotoxicity in Rats. 12. Safety and anti-obesity activity of Tryusanadi guggulu in experimental animals.
Biochemistry	Anti-cancer activity of Chaulmoogra oil and Shwetha Sarshapa churna in the treatment of epidermal carcinoma of skin in experimental mice.	1. A biochemical role of AYUSH-PTK, an Ayurvedic formulation against anti-tubercular drug-induced hepatotoxicity in rats (2020-2022) 2.Anti-atherosclerotic activity of Hirdayarnava rasa on animal model (2018-2020) 3. Biochemical studies on Premna integrifolia Linn. in high-fat diet-induced atherosclerosis model rats (2014-2016)
Microbiology	1. Isolation and Identification of Endophytic Microorganisms from the stem barks used in Ayurveda (Panchavalkala) and Evaluation of their Antimicrobial, antioxidant and antibiofilm activities	1. Antibacterial Activity of selective Ayurveda formulations against