Ethnopharmacology is an important discipline for the development of new medicines that are of extreme importance for the conservation and enhancement of the traditional use of natural products and undoubtedly is one of the main sources faster for the rational development of new medicines. There are several examples of drugs that have been discovered from ethnopharmacologic studies. Therefore, in this context, this special issue aimed to present important studies carried out by researchers from all the areas that explore and dedicate themselves to the following themes, which were submitted for publication in this journal.

For this special publication, 43 manuscripts from various laboratories from all continents of the world were received, with the following topics: ethnopharmacy, ethnopharmacology and ethnobotanical studies, ethnomedicine and bioactive compounds from animals and plants, pharmaceutical technology with natural products, clinical application of natural products in different communities, predictions and in silico studies with natural products, and alternative biological assay for determination of natural product activity.

After careful analysis by several ad hoc referees of renowned universities, 11 manuscripts were accepted for publication, standing out for the quality presented and the high possibility of impact in the field of ethnopharmacology.

In the paper “Optimized-SopungSunkiwon, a Herbal Formula, Attenuates Aβ Oligomer-Induced Neurotoxicity in Alzheimer’s Disease Models,” it was confirmed by in vivo data that oral administration of Optimized-SopungSunkiwon (OSS) for 14 days attenuated memory impairments and neuronal cell death by modulating gliosis, glutathione depletion, and synaptic damage in the mouse hippocampus induced by AβO.

The manuscript "EGHB010, a Standardized Extract of Paeonieae Radix and Glycyrrhizae Radix, Inhibits VEGF-Induced Tube Formation In Vitro and Retinal Vascular Leakage and Choroidal Neovascularization In Vivo” demonstrated that the EGBH010 that is a hot water extract of the rhizome mixture of Paeonia lactiflora Pall. and Glycyrrhiza uralsensis Fisch and in choroidal neovascularization (CNV) area was significantly lower in EGBH010-treated rats than in vehicle-treated rats. These results suggest that EGBH010 is a potent antiangiogenic agent. Thus, the oral administration of EGBH010 may have a beneficial effect in the treatment
of vascular leakage and CNV in patients with age-related macular degeneration.

The psychotropic effects of an alcoholic extract from the leaves of *Albizia zygia* (Leguminosae-Mimosoideae) were evaluated and the hydroethanolic extract of *Albizia zygia* exhibited an antipsychotic-like activity in mice. Motor side effects are only likely to develop at higher doses of the extract. The extract does not possess any significant antidepressant effects.

The potential wound healing activities of *Oxytropis falcate* gel (OFG) was demonstrated in the manuscript “Therapeutic Effect and Mechanism of *Oxytropis falcata* Gel on Deep Second-Degree Burn in Rats,” and the mechanism may be related to the increase of biosynthesis and the release of EGF and CD34 and the decreasing p38 and IL-1β levels.

In the study “A Molecular Basis for the Inhibition of Transient Receptor Potential Vanilloid Type 1 by Gomisin A,” it has been demonstrated that the double mutation of Y453 and N467 significantly attenuated inhibitory effects by gomisin A. In summary, it revealed the molecular basis for the interaction between TRPV1 and gomisin A and provided a novel potent interaction ligand.

In the paper “Antcin-H Isolated from *Antrodia cinnamomea* Inhibits Renal Cancer Cell Invasion Partially through Inactivation of FAK-ERK-C/EBP-β/c-Fos-MMP-7 Pathways,” luciferase reporter assay showed that antcin-H repressed the MMP-7 promoter activity, in parallel to inhibiting c-Fos/AP-1 and C/EBP-β transactivation abilities. Moreover, antcin-H suppressed the activity of ERK1/2 and decreased the binding capacity of C/EBP-β and c-Fos on the upstream/enhancer region of the MMP-7 promoter. Overall, this study demonstrated that the anti-invasive effect of antcin-H in human renal carcinoma 786-0 cells might be at least in part by abrogating focal adhesion complex and lamellipodium formation through inhibiting the Src/FAK-paxillin signaling pathways and decreasing MMP-7 expression through suppressing the ERK1/2-AP-1/c-Fos and C/EBP-β signaling axis. Thus, it was proven that the evidence that antcin-H may be an active component existed in *A. cinnamomea* with anticancer effect.

In the paper “Tang-Luo-Ning, a Traditional Chinese Medicine, Inhibits Endoplasmic Reticulum Stress-Induced Apoptosis of Schwann Cells under High Glucose Environment,” the results showed that TLN attenuated apoptosis by decreasing Ca2+ level in SCs and maintaining ER morphology. TLN could decrease downstream proteins of CHOP including GADD34 and Ero1α while increasing P-eIF2α as well as decreasing the upstream proteins of CHOP including P-IRE1α/IRE1α and XBP-1, thereby reducing ER stress-induced apoptosis.

Flavonoid composition and biological activities of ethanol extracts of *Caryocar coriaceum* Wittm, a native plant from Caatinga Biome, Brazil, were a theme presented that demonstrated that the extracts present antileishmanial activity and low toxicity on murine macrophages and erythrocytes. Therefore, these results suggest a potential for the application of *C. coriaceum* fruit’s ethanol extracts in the treatment of dermatophyte fungi and leishmaniasis, probably due to the presence of active flavonoids in both extracts.