**DIT0051 –  TÓPICOS AVANÇADOS EM P.D DE MEDICAMENTOS IV**

**“Centrifugal Partition Chromatography as a tool to obtain bioactive compounds from Brazilian biodiversity”**

Obrigatória: NÃO Carga Horária: 30 Créditos: 2.0

**Data:** 22 a 26 de novembro de 2022 (manhã e tarde, excetos dia 24 que não haverá aula)

**Ementa**

Introduction to Centrifugal Partition Chromatography (CPC). A state-of-the-art technique and applications for using CPC. Development of a CPC system according to polarity of botanical extracts by the shake-flask method and determination of the partition coefficient K by HPLC-DAD and TLC.

**Docentes**

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**Bibliografia**

Ito, Y.; Bowan, R. L. Countercurrent Chromatography: Liquid-liquid Partition Chromatography without solid support. Science, v. 167 (3916): 281-283, 1970.

Michel. T.; Destandau, E.; Elfakir C. New advances in countercurrent chromatography and centrifugal partition chromatography: focus on coupling strategy. Analytical and Bioanalytical Chemistry, 406(4):957-69, 2014.

Bojczuk, M.; Zyzelewicz, D.; Hodurek P. Centrifugal partition chromatography – A review of recent applications and some classic references. Journal of Separation Science, 40 (7):1597-1609, 2017.

Kostanyan, A.A.; Voshkin, A.A.; Belova, V. V. Analytical, Preparative, and Industrial-Scale Separation of Substances by Methods of Countercurrent Liquid-Liquid Chromatography. Molecules, v. 25(24): 6020, 2020.