

## DAFTAR PUSTAKA

1. Blasco C, Picó Y. Development of an improved method for trace analysis of quinolones in eggs of laying hens and wildlife species using molecularly imprinted polymers. *J Agric Food Chem*. 2012;60(44):11005–14.
2. Mirzajani R, Kardani F. Fabrication of ciprofloxacin molecular imprinted polymer coating on a stainless steel wire as a selective solid-phase microextraction fiber for sensitive determination of fluoroquinolones in biological fluids and tablet formulation using HPLC-UV detectio. *J Pharm Biomed Anal* [Internet]. 2016;122:98–109. Tersedia pada: <http://dx.doi.org/10.1016/j.jpba.2016.01.046>
3. Widiastuti R, Martindah E, Maryam R. Kontaminasi Fluorokuinolon pada Pakan Ayam Pedaging yang Dikoleksi dari Provinsi Jawa Timur dan Lampung ( Contamination of Fluoroquinolones in Broiler Chicken Feed Collected from East Java and Lampung Provinces ). 2020;815–23.
4. Wang GN, Yang K, Liu HZ, Feng MX, Wang JP. Molecularly imprinted polymer-based solid phase extraction combined high performance liquid chromatography for determination of fluoroquinolones in milk. *Anal Methods* [Internet]. 2016;8(27):5511–8. Tersedia pada: <http://dx.doi.org/10.1039/C6AY00810K>
5. Raini M. Antibiotik Golongan Fluorokuinolon : Manfaat dan Kerugian. *Media Litbangkes*. 2016;26(3):163–74.
6. Ansari S, Karimi M. Trends in Analytical Chemistry Novel developments and trends of analytical methods for drug analysis in biological and environmental samples by molecularly imprinted polymers. *Trends Anal Chem* [Internet]. 2017;89:146–62. Tersedia pada: <http://dx.doi.org/10.1016/j.trac.2017.02.002>
7. Moein MM, Said R, Bassyouni F, Abdel-Rehim M. Solid phase microextraction and related techniques for drugs in biological samples. *J Anal Methods Chem*. 2014;2014.
8. Rezaei B, Mallakpour S, Rahmanian O. Application of molecularly imprinted polymer for solid phase extraction and preconcentration of hydrochlorothiazide in pharmaceutical and serum sample analysis. *J Iran Chem Soc*. 2010;7(4):1004–11.
9. Smoluch M, Reszke E. Molecularly imprinted polymers as selective adsorbents for ambient plasma mass spectrometry. *Anal Bioanal Chem*. 2017;3393–405.
10. Zhang M, Zeng J, Wang Y, Chen X. Developments and trends of molecularly

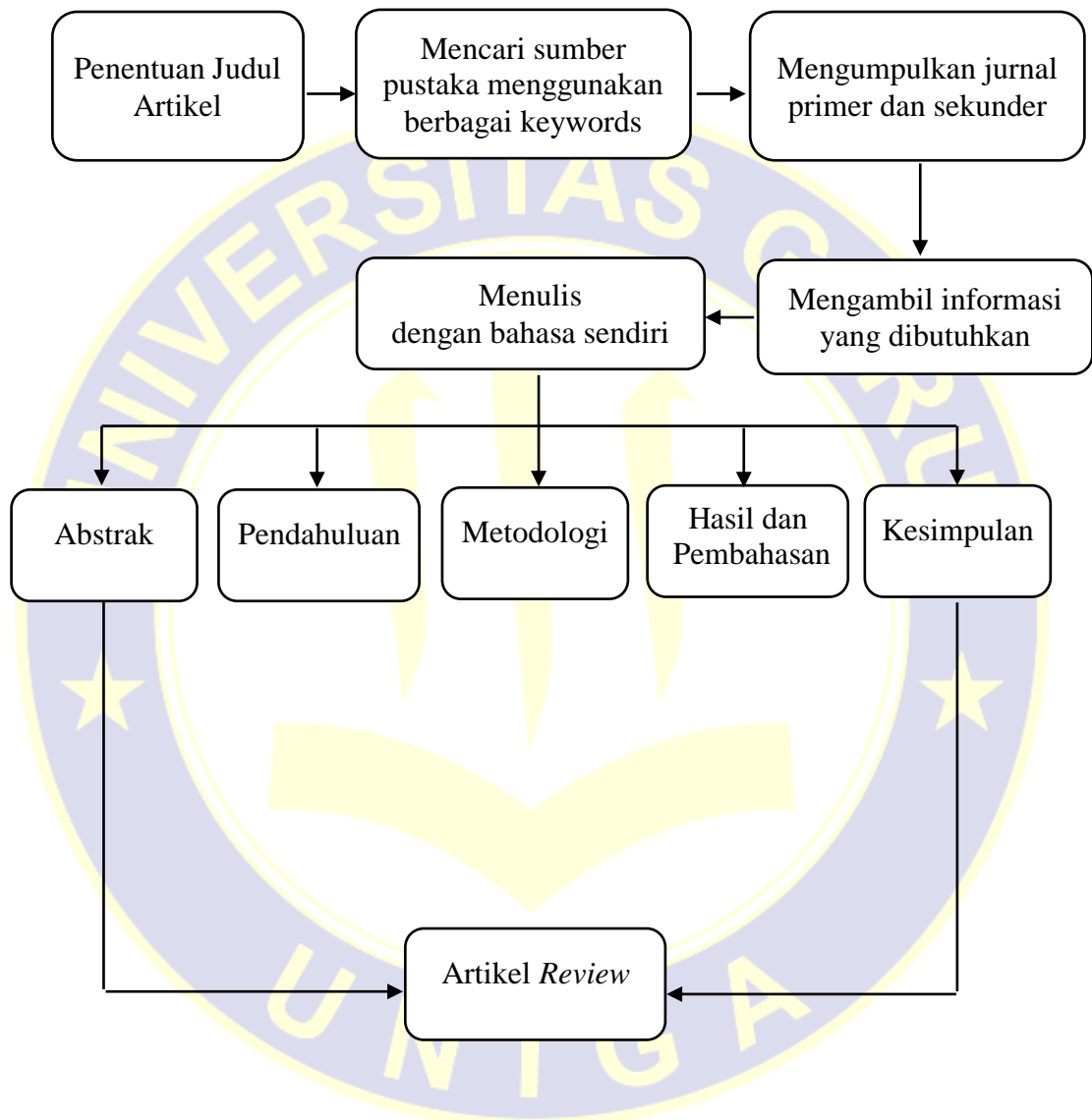
- imprinted solid-phase microextraction. *J Chromatogr Sci*. 2013;51(7):577–86.
11. Gama MR, Bottoli CBG. Molecularly imprinted polymers for bioanalytical sample preparation. *J Chromatogr B Anal Technol Biomed Life Sci* [Internet]. 2017;1043:107–21. Tersedia pada: <http://dx.doi.org/10.1016/j.jchromb.2016.09.045>
  12. Figueiredo L, Erny GL, Santos L, Alves A. Applications of molecularly imprinted polymers to the analysis and removal of personal care products: A review. *Talanta* [Internet]. 2016;146:754–65. Tersedia pada: <http://dx.doi.org/10.1016/j.talanta.2015.06.027>
  13. Sarafraz-Yazdi A, Razavi N. Application of molecularly-imprinted polymers in solid-phase microextraction techniques. *TrAC - Trends Anal Chem* [Internet]. 2015;73:81–90. Tersedia pada: <http://dx.doi.org/10.1016/j.trac.2015.05.004>
  14. Rinawati. Review : Green Analytical Chemistry : Solid Phase Microextraction ( PME) Dan Pressurized Fluid Extraction (PFE) Untuk Penentuan Polsiklik Aromatik Hidrokarbon (PAH). *Anal Anal Environ Chem*. 2017;2(01):63–71.
  15. Ansari S, Karimi M. Recent progress, challenges and trends in trace determination of drug analysis using molecularly imprinted solid-phase microextraction technology. *Talanta* [Internet]. 2017;164(September):612–25. Tersedia pada: <http://dx.doi.org/10.1016/j.talanta.2016.11.007>
  16. Van Doorslaer X, Dewulf J, Van Langenhove H, Demeestere K. Fluoroquinolone antibiotics: An emerging class of environmental micropollutants. *Sci Total Environ* [Internet]. 2014;500–501:250–69. Tersedia pada: <http://dx.doi.org/10.1016/j.scitotenv.2014.08.075>
  17. Sajid M, Khaled Nazal M, Rutkowska M, Szczepańska N, Namieśnik J, Płotka-Wasyłka J. Solid Phase Microextraction: Apparatus, Sorbent Materials, and Application. *Crit Rev Anal Chem* [Internet]. 2019;49(3):271–88. Tersedia pada: <https://doi.org/10.1080/10408347.2018.1517035>
  18. Majcher M, Dziadas M. Microextraction techniques in the analysis of food flavor compounds : A review. *Anal Chim Acta*. 2012;738:13–26.
  19. Jain R. Microextraction techniques for forensic drug analysis in saliva. *Forensic Res Criminol Int J*. 2017;5(4):346–9.
  20. Hu Y, Pan J, Zhang K, Lian H, Li G. Novel applications of molecularly-imprinted polymers in sample preparation. *TrAC - Trends Anal Chem* [Internet]. 2013;43:37–52. Tersedia pada: <http://dx.doi.org/10.1016/j.trac.2012.08.014>
  21. Souza Silva EA, Risticovic S, Pawliszyn J. Recent trends in SPME concerning sorbent materials, configurations and in vivo applications. *TrAC*

- Trends Anal Chem [Internet]. 2013;43(x):24–36. Tersedia pada: <http://dx.doi.org/10.1016/j.trac.2012.10.006>
22. Portillo-Castillo OJ, Castro-Riós R, Chávez-Montes A, González-Horta A, Cavazos-Rocha N, De Torres NHW, et al. Developments of solid-phase microextraction fiber coatings for environmental pharmaceutical and personal care products analysis. *Rev Anal Chem*. 2018;37(2):1–22.
  23. Molianer-Martinez Y, Herráez-Hernández R, Verdú-Andrés J, Molins-Legua C, Campíns-Falcó P. Recent advances of in-tube solid-phase microextraction. *TrAC - Trends Anal Chem [Internet]*. 2015;71:205–13. Tersedia pada: <http://dx.doi.org/10.1016/j.trac.2015.02.020>
  24. Yılmaz E, Garipcan B, Patra HK, Uzun L. Molecular imprinting applications in forensic science. *Sensors*. 2017;17(4):1–24.
  25. Martín-Esteban A. Molecularly-imprinted polymers as a versatile, highly selective tool in sample preparation. *TrAC - Trends Anal Chem*. 2013;45(1):169–81.
  26. Royani I, Widayani, Abdullah M, Khairurrijal. Pembuatan Polimer MIP (Molecularly Imprinted Polymer) Atrazin Untuk Diaplikasikan Sebagai Material Sensor. *Pros Semin Nas Mater 2012*. 2012;(February):77–9.
  27. Belbruno JJ. Molecularly Imprinted Polymers. *Chem Rev*. 2018;119:94–119.
  28. Huang Y-P, Zheng C, Liu Z-S. Molecularly Imprinted Polymers for the Separation of Organic Compounds in Capillary Electrochromatography. *Curr Org Chem*. 2012;15(11):1863–70.
  29. Amin S, Damayanti S, Ibrahim S. Interaction Study, Synthesis and Characterization of Molecular Imprinted Polymer Using Functional Monomer Methacrylate Acid and Dimethylamylamine as Template Molecule. *J Ilmu Kefarmasian Indones*. 2018;16(1):12.
  30. Cheong WJ, Yang SH, Ali F. Molecular imprinted polymers for separation science: A review of reviews. *s*. 2013;36(3):609–28.
  31. Pardo A, Mespouille L, Dubois P, Duez P, Blankert B. Targeted extraction of active compounds from natural products by molecularly imprinted polymers. *Cent Eur J Chem Target*. 2012;10(3):751–65.
  32. Vasapollo G, Sole R Del, Mergola L, Lazzoi MR, Scardino A. Molecularly Imprinted Polymers: Present and Future Prospective. *Int J Mol Sci*. 2011;(December).
  33. Rane J, Adhikar P, Bakal RL. Molecular Imprinting: An Emerging Technology. *Asian J Pharm Technol Innov*. 2015;03(11):75–91.
  34. Hu Y, Song C, Li G. Fiber-in-tube solid-phase microextraction with molecularly imprinted coating for sensitive analysis of antibiotic drugs by

- high performance liquid chromatography. *J Chromatogr A* [Internet]. 2012;1263:21–7. Tersedia pada: <http://dx.doi.org/10.1016/j.chroma.2012.09.029>
35. Zhao T, Guan X, Tang W, Ma Y, Zhang H. Preparation of temperature sensitive molecularly imprinted polymer for solid-phase microextraction coatings on stainless steel fiber to measure ofloxacin. *Anal Chim Acta* [Internet]. 2014;853(1):668–75. Tersedia pada: <http://dx.doi.org/10.1016/j.aca.2014.10.019>
  36. Guan X, Zhu X, Yu B, Zhao T, Zhang H. Preparation of temperature sensitive molecularly imprinted polymer coatings on nickel foam for determination of ofloxacin in Yellow River water by solid-phase microextraction. *RSC Adv* [Internet]. 2015;5(111):91716–22. Tersedia pada: <http://dx.doi.org/10.1039/C5RA15031K>
  37. Tian H, Liu T, Mu G, Chen F, He M, You S, et al. Rapid and sensitive determination of trace fluoroquinolone antibiotics in milk by molecularly imprinted polymer-coated stainless steel sheet electrospray ionization mass spectrometry. *Talanta* [Internet]. 2020;219:121282. Tersedia pada: <https://doi.org/10.1016/j.talanta.2020.121282>
  38. Lv YK, Ma Y, Zhao XB, Jia CL, Sun HW. Grafting of norfloxacin imprinted polymeric membranes on silica surface for the selective solid-phase extraction of fluoroquinolones in fish samples. *Talanta* [Internet]. 2012;89:270–5. Tersedia pada: <http://dx.doi.org/10.1016/j.talanta.2011.12.026>
  39. Qiao J, Yan H, Wang H, Lv Y. Determination of ofloxacin and lomefloxacin in chicken muscle using molecularly imprinted solid-phase extraction coupled with liquid chromatography. *J Sep Sci*. 2011;34(19):2668–73.
  40. Speltini A, Sturini M, Maraschi F, Consoli L, Zeffiro A, Profumo A. Graphene-derivatized silica as an efficient solid-phase extraction sorbent for pre-concentration of fluoroquinolones from water followed by liquid-chromatography fluorescence detection. *J Chromatogr A* [Internet]. 2015;1379:9–15. Tersedia pada: <http://dx.doi.org/10.1016/j.chroma.2014.12.047>
  41. Afgani AQ, Destiani DP, Farmasi F, Padjadjaran U. Review Artikel: Pengaruh Polaritas Porogen Pada Sintesis Molecularly Imprinted Polymer (MIP). *Farmaka*. 2018;16(3):224–33.
  42. Wisudyaningih B. Studi preformulasi: validasi metode spektrofotometri ofloksasin dalam larutan dapar fosfat. 2012;9(2):77–81.
  43. Sumarno D, Kusumaningtyas DI. Penentuan Limit Deteksi Dan Limit Kuantitasi Untuk Analisis Logam Timbal (Pb) dalam Air Tawar Menggunakan Alat Spektrofotometer Serapan Atom. 2018;16:7–11.

## LAMPIRAN 1

### SKEMA PEMBUATAN *REVIEW* ARTIKEL



**Gambar II.1** Skema Pembuatan *Review* Artikel

## LAMPIRAN 2

### BUKTI SUBMIT

The image consists of two screenshots of a web-based submission system for the journal 'Jurnal Farmasi Sains dan Praktis'. The top screenshot shows the 'Submissions' page, where the user 'rakhmatuloh' has one submission assigned. The submission is titled 'Review : Application of Molecularly Imprinted Polymer Solid Phase Microextractio...' and is in the 'Submission' status. The bottom screenshot shows the 'Submission Library' page for the same submission. The title is 'Review : Application of Molecularly Imprinted Polymer Solid Phase Microextraction (MIP-SPME) in Analysis of Fluoroquinolones' by Arief Rakhmatuloh. The submission files section shows a file named '19347-1\_rakhmatuloh, Review Penerapan Molecularly Imprinted Polymer Solid Phase Microextraction (MIP-SPME) Dalam Analisis Obat Fluorokuinolon.doc'. The pre-review discussions section is currently empty.

Gambar I.1 Bukti Submit

## DAFTAR RIWAYAT HIDUP

### DATA PRIBADI



Nama : Arief Rakhmatuloh

Tempat, Tanggal Lahir : Bandung, 04 Oktober 1999

Jenis Kelamin : Laki-laki

Agama : Islam

Status : Mahasiswa

Alamat : Kp. Cicadas RT 01 RW 07 Desa Margaasih  
Kec. Cicalengka Kab. Bandung

No. telepon : 082121091210

Email : [rakhmatuloh.a@gmail.com](mailto:rakhmatuloh.a@gmail.com)

### PENDIDIKAN

**Formal**

TK : Al-Hasanah (2005-2006)

SD : SDN Kota Kulon X (2006-2011)

SMP : SMPN 1 Cikancung (2011-2014)

SMA : SMAN 1 Cicalengka (2014-2017)

Sarjana : Universitas Garut Prodi S1 Farmasi (2017-2021)