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### Publications

#### PUBLICATIONS

- **Visualizing cortical blood perfusion after photothrombotic stroke in vivo by needle-shaped beam optical coherence tomography angiography** *PHOTONIX*  
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- **Design, synthesis, and applications of ring-functionalized histidines in peptide-based medicinal chemistry and drug discovery.** *Medicinal research reviews*  
Sharma, K., Sharma, K. K., Mahindra, A., Sehra, N., Bagra, N., Aaghaz, S., Parmar, R., Rathod, G. K., Jain, R.  
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- **Synthetic amino acids-based short amphipathic peptides exhibit antifungal activity by targeting cell membrane disruption.** *Drug development research*  
Aaghaz, S., Sharma, K., Maurya, I. K., Rudramurthy, S. M., Singh, S., Kumar, V., Tikoo, K., Jain, R.  
2023; 84 (3): 514-526
- **Anticryptococcal activity and mechanistic studies of short amphipathic peptides.** *Archiv der Pharmazie*  
Aaghaz, S., Sharma, K., Maurya, I. K., Rudramurthy, S. M., Singh, S., Kumar, V., Tikoo, K., Jain, R.  
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- **Peptide-based drug discovery: Current status and recent advances.** *Drug discovery today*  
Sharma, K., Sharma, K. K., Sharma, A., Jain, R.  
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- **Synthetic amino acids-derived peptides target *Cryptococcus neoformans* by inducing cell membrane disruption.** *Bioorganic chemistry*  
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- **Anticryptococcal activity and mechanistic investigation of histidine-rich short peptides** *JOURNAL OF MOLECULAR STRUCTURE*  
Aaghaz, S., Sharma, K., Maurya, I., Rudramurthy, S. M., Singh, S., Kumar, V., Tikoo, K., Jain, R.  
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- **Antifungal evaluation and mechanistic investigations of membrane active short synthetic peptides-based amphiphiles.** *Bioorganic chemistry*  
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2022; 127: 106002

- **Peptide-Heterocycle Conjugates as Antifungals Against Cryptococcosis** *ASIAN JOURNAL OF ORGANIC CHEMISTRY*  
Sharma, K. K., Sharma, K., Kudwal, A., Khan, S., Jain, R.  
2022; 11 (7)
- **$\beta$ -Carbolines as potential anticancer agents.** *European journal of medicinal chemistry*  
Aaghaz, S., Sharma, K., Jain, R., Kamal, A.  
2021; 216: 113321
- **Supramolecular gels from sugar-linked triazole amphiphiles for drug entrapment and release for topical application.** *RSC advances*  
Sharma, K., Joseph, J. P., Sahu, A., Yadav, N., Tyagi, M., Singh, A., Pal, A., Kartha, K. P.  
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- **Short Antimicrobial Peptides.** *Recent patents on anti-infective drug discovery*  
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