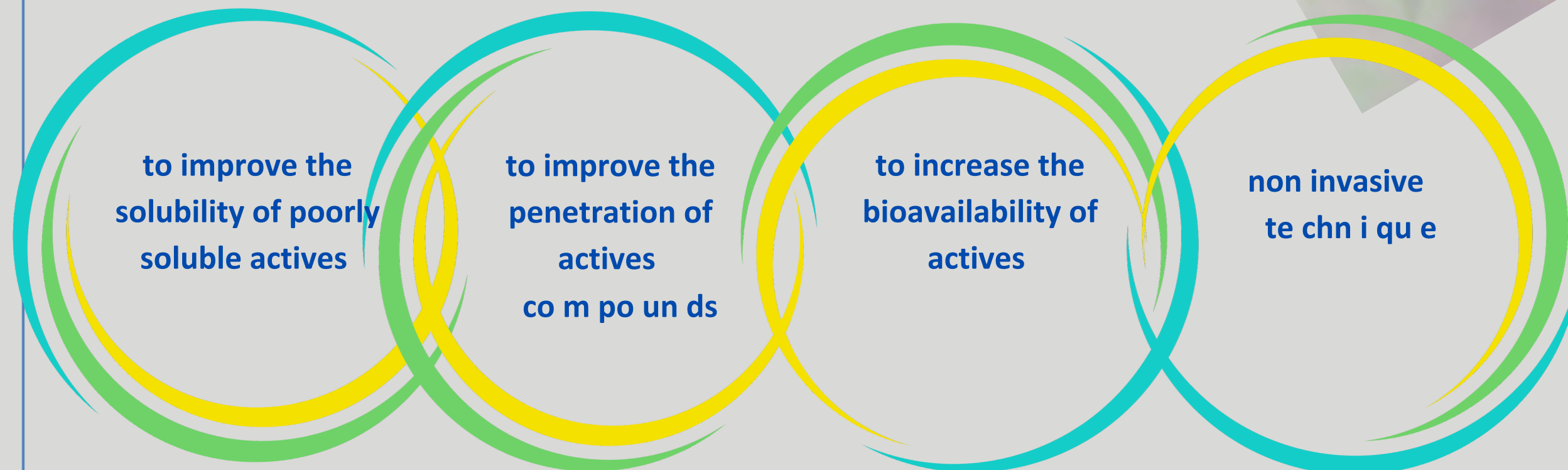




Novel strategies for effective transdermal applications: Enhancing penetration of natural compounds across the skin via delivery in nanocarriers



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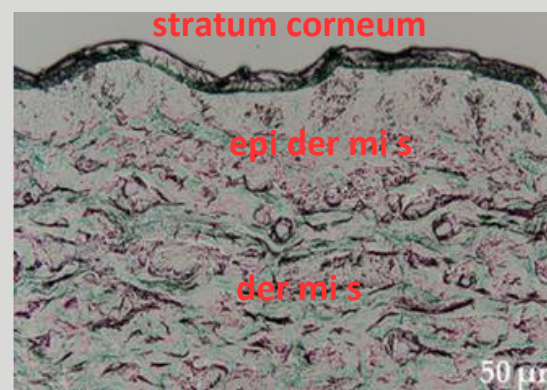
ORCID ID: 0000-0002-0513-4396

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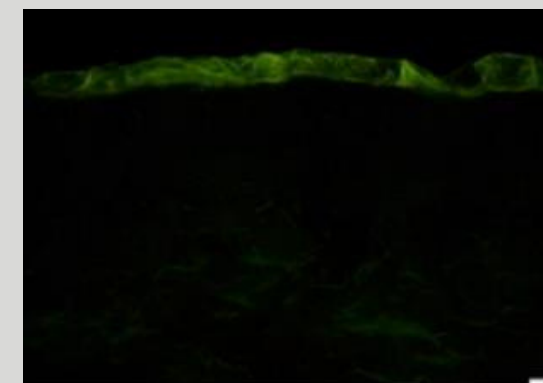
Website: <https://www.keck-marburg.de/de/Research-Team/>

RESEARCH INTEREST

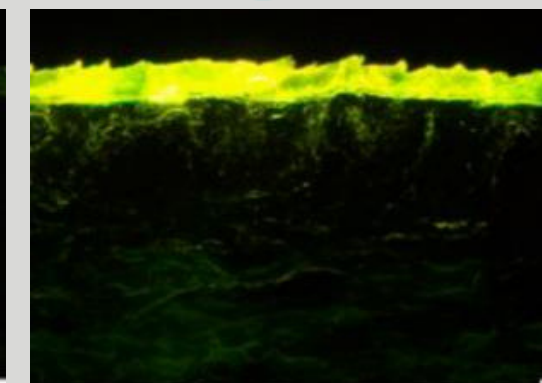
- • Dermal penetration enhancer
- • Nanocarrier
- Optimization of topical formulations
- Green herbal extraction
- Nutrition therapy



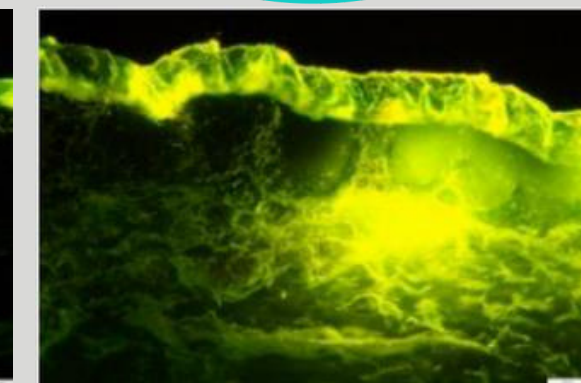
blank skin layers



blank skin



ethanolic curcumin treated skin



curcumin nanosuspension treated skin

Chaiprateep, E.-o., Wiemann, S., Eckert, R. W., Raab, C., Sengupta, S., & Keck, C. M. (2023). Influence of Dose, Particle Size and Concentration on Dermal Penetration Efficacy of Curcumin. *Pharmaceutics*, 15(11), 2645.

<https://doi.org/10.3390/pharmaceutics15112645>

Keck, C. M., Chaiprateep, E.-o., Dietrich, H., & Sengupta, S. (2022). Influence of Mechanical Skin Treatments on Dermal Penetration Efficacy of Active Ingredients. *Pharmaceutics*, 14(9), 1788. <https://doi.org/10.3390/pharmaceutics14091788>



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