

## CURRICULUM VITAE

**Full Name:** Liliya Ivanova Vinarova

**Personal status:** Married + 2

**Articles in JCR journals:** 5

**Total citations:** 192 (Google scholar)

**h-index:** 4 (Google scholar)

**Institution:** Department of Chemical and Pharmaceutical Engineering

**Department website:** <https://dce.uni-sofia.bg/>

### ACADEMIC DEGREES

2015            PhD Chemistry (Lipid digestion), Faculty of Chemistry and Pharmacy, Sofia University, Bulgaria

2010            M. Sc. Chemistry, Faculty of Chemistry, Sofia University, Bulgaria

2008            B. Sc. Chemistry, Faculty of Chemistry, Sofia University, Bulgaria

### ACADEMIC APPOINTMENTS

2008 –            Research associate, Department of Chemical and Pharmaceutical Engineering, Faculty of Chemistry and Pharmacy, Sofia University, Bulgaria

### RESEARCH INTERESTS

In-vitro modelling of gastro-intestinal tract, Lipid digestion and bioaccessibility of hydrophobic bioactives, Oral delivery of poorly-water soluble drugs

Enzyme-surfactant interactions

### TEACHING EXPERIENCE

2013 – 2016    ДПНУ, Bachelor (practical exercises)

### PUBLICATIONS

#### Thesis

2015    In vitro studies of factors affecting cholesterol solubilization in the digestive tract

#### Papers in professional journals (indexed in JCR):

1. Characterization of neonatal and infant enterostomy fluids-Part II: Drug solubility. T. de Waal, J. Brouwers, M. Rayyan, C. Stillhart, **L. Vinarova**, Z. Vinarov, P. Augustijns, Int. J. Pharm. 642 (2023) 123141.
2. Mechanism of Lowering Cholesterol Absorption by Calcium Studied by In Vitro Digestion Model. **L. Vinarova**, Z. Vinarov, S. Tcholakova, N. D. Denkov, S. Stoyanov, A. Lips. Food & Function 7 (2016) 151–163.
3. Lowering of Cholesterol Bioaccessibility and Serum Concentrations by Saponins: in Vitro and in Vivo Studies. **L. Vinarova**, Z. Vinarov, V. Atanasov, I. Pantcheva, S. Tcholakova, N. Denkov, S. Stoyanov. Food & Function 6 (2015) 501–512.

4. Mechanisms of Cholesterol and Saturated Fatty Acid Lowering by Quillaja saponaria Extract, Studied by in vitro Digestion Model. **L. Vinarova**, Z. Vinarov, B. Damyanova, S. Tcholakova, N. Denkov, S. Stoyanov. Food & Function 6 (2015) 1319–1330.
5. In vitro study of triglyceride lipolysis and phase distribution of the reaction products and cholesterol: effects of calcium and bicarbonate. Z. Vinarov, **L. Petrova**, S. Tcholakova, N. Denkov, S. Stoyanov, A. Lips, Food & Function 3 (2012) 1206-1220.

#### **PARTICIPATION IN SCIENTIFIC AND INDUSTRIAL PROJECTS**

1. Задълбочено охарактеризиране на аморфни твърди дисперсии при разтваряне в биологично значими среди / Advanced characterization of Amorphous Solid Dispersions during dissolution in biorelevant media, **Janssen, Belgium**
2. Охарактеризиране на разтварянето на аморфни твърди дисперсии в биоподобни среди / Advanced characterization of Amorphous Solid Dispersions during dissolution in biorelevant media, **Янсен, Белгия**
3. Elaboration on the Perfect Soap Bar, **Unilever, USA**
4. Mechanistic understanding and prediction of API solubilization in fasted, fed and lipid-rich biorelevant media, **Janssen, Belgium**
5. Устойчиво оползотворяване на био-ресурси и отпадъци от лечебни и ароматични растения за иновативни биоактивни продукти, **ОП НОИР, BG05M2OP001-1.002-0012**
6. Изследване на процесите свързани с резорбцията на лекарствени вещества в стомашно-чревния тракт, **COST Action CA16205 UNGAP**
7. Building mechanistic understanding and predictive models of dissolution in-use performance of soap bars incl. usage of sustainable structurants and surfactants, **Unilever, Netherlands**
8. Development of low cost- superior sensorial shampoo chassis, **Unilever, Netherlands**
9. Quick, cold and dilute cleaning, **Unilever, UK**
10. Low temperature cleaning – physical, biological and chemical insights, **Unilever, UK**
11. Screening for natural plant emulsifiers: characterization physicochemical and technofunctional properties and biological behavior and activity in simulated gastric conditions, **Unilever, Netherlands**
12. Physicochemical expertise to manipulate enzyme in complex media, **Unilever, UK**

#### **PARTICIPATION IN TRAINING COURSES AND PROJECTS FOR STUDENTS**

1. COST Action D43: "Fluids and Solid Interfaces", 12-15 April 2011, **Sofia, Bulgaria**
2. ECIS training course: "Colloids and Medical Applications", 2013, **Sofia, Bulgaria**
3. „Изграждане на интердисциплинарни екипи от млади изследователи в областта на фундаменталните и приложни научни изследвания от значение за медицинската практика“

#### **PARTICIPATION IN THE ORGANIZATION OF INTERNATIONAL SCHOOLS AND CONFERENCES**

1. EUFOAM International Conference, 14 – 16 July 2010, **Borovets, Bulgaria**.
2. UNGAP SPRING MEETING, CA16205, 12 – 13 February 2019, **Sofia, Bulgaria**