

## Curriculum Vitae

Personal information **Irena Caleta**

### Work experience

March 2025 - present: Expert Advisor in Science; Croatian Veterinary Institute; Croatia

#### • Quality assessment of veterinary medicinal products

Jan 2021 - March 2025: Principal Scientist/Lead Scientist/Research Fellow - Medicinal Chemist; Selvita d.o.o.; Croatia

- A drug discovery team leader/member
- Working across different targets/projects
- Planning and management of client projects; co-ordination of experiments, data evaluation and providing scientific expertise to project team

Jan 2013 - Jan 2021: Principal Scientist - Medicinal Chemist \_ Fidelta d.o.o.; Croatia

- Team member/leader of various projects (hit-to-lead and lead optimization stage)
- Responsible for design and synthesis of new molecules with improved PK/PD properties, QC of prepared molecules, SAR analysis, meeting deadlines and controlling budget
- Laboratory manager

Sep 2010 - Jan 2013: Senior Scientist - Medicinal Chemist \_ Galapagos NV; Croatia

- Design and synthesis of macrolides and small heterocyclic molecules

June 2007 - Sep 2010: Senior Scientist - Medicinal Chemist \_ GlaxoSmithKline d.o.o.; Croatia

- Synthetic chemist in drug discovery

June 2007 - July 2000: Junior Assistant/Assistant/Senior Assistant \_ Faculty of Chemical Engineering and Technology, University of Zagreb; Croatia

- Conducting laboratory exercises and seminars
- PhD student at Faculty of Science, University of Zagreb

### Education and training

2000-2007\_PhD (Chemistry)\_Faculty of Science, University of Zagreb\_Croatia

1993-2000\_B.Sc (Chemistry)\_Faculty of Science, University of Zagreb\_Croatia

### Additional information

#### Publications

1. K. Šandor, E. Perak Junaković, S. Terzić; I. Žarković, A. Vujnović, D. Fajdić, M. Pehnc, S. Sinković, **I. Čaleta**, M. Andrišić;  
A Green HPLC Approach to Florfenicol Analysis in Pig Urine; *Pharmaceuticals*, 17 (2024), 4; 495, 15. doi: 10.3390/ph17040495
2. M. Mlakić, I. Selec, **I. Čaleta**, I. Odak, D. Barić, A. Ratković, K. Molčanov, I. Škorić;  
New thienobenzo/naphtho-triazoles as butyrylcholinesterase inhibitors: design, synthesis and computational study; *International journal of molecular sciences*, 24 (2023), 6; 5879, 18; doi: 10.3390/ijms24065879
3. A. Čikoš, **I. Čaleta**, D. Žiher, Mark B. Vine, I. Elenkov, *et al.*;  
Structure and conformational analysis of spiroketals from 6-O-methyl-9(E)-hydroxyiminoerythronolide A; *Beilstein journal of organic chemistry*, 11 (2015), 1447-1457; doi: 10.3762/bjoc.11.157
4. **I. Čaleta**, A. Čikoš, D. Žiher, I. Đilović, M. Dukši, *et al.*;  
Synthesis, NMR and X-ray structure analysis of macrolide aglycons; *Structural chemistry*, 23 (2012), 6; 1785-1796; doi: 10.1007/s11224-012-9984-3
5. A. Hutinec, R. Rupčić, **I. Čaleta**, M. Oršulić;  
Microwave-assisted polymer-supported acylation of 15-membered azalides-a rapid and efficient procedure; *Tetrahedron Letters* 52 (15), 1745-1748; doi:10.1016/j.tetlet.2011.01.154
6. V. Stepanić, S. Koštrun, I. Malnar, M. Hlevnjak, K. Butković, **I. Čaleta**, *et al.*;  
Modeling Cellular Pharmacokinetics of 14- and 15-membered Macrolides with Physicochemical Properties; *Journal of medicinal chemistry*, 54 (2011), 3; 719-733; doi: 10.1021/jm101317f
7. **I. Čaleta**, M. Kralj, M. Marjanović, *et al.*;  
Novel Cyano- and Amidino- Benzothiazole Derivatives: Synthesis, Antitumor Evaluation, X-ray and QSAR Analysis; *Journal of medicinal chemistry*, 52 (2009), 6; 1744-1756; doi: 10.1021/jm801566q
8. K. Ester, M. Hranjec, I. Piantanida, **I. Čaleta**, I. Jarak *et al.*;  
Novel derivatives of pyridylbenzo[b]thiophene-2-carboxamides and benzo[b]thieno[2,3-c]naphthyridin-2-ones:

minor structural variations provoke major differences of antitumor action mechanisms; Journal of medicinal chemistry, 52 (2009), 8; 2482-2492; doi: 10.1021/jm801573v

9. **I. Čaleta**, M. Kralj, M. Marjanović, G. Karminski-Zamola; Synthesis and Antiproliferative Evaluation of Novel Bis-Styrylbenzothiazol-3-ium Salts; Monatshefte für Chemie, 139 (2008), 5; 569-573.

10. **I. Čaleta**, D. Cinčić, G. Karminski-Zamola, B. Kaitner; The synthesis and structure of two novel N-(benzothiazol-2-yl)benzamides; Journal of chemical crystallography, 38 (2008), 10; 775-780; doi: 10.1007/s10870-008-9389-8

11. K. Starčević, **I. Čaleta**, D. Cinčić, *et. all.*; Synthesis, crystal structure determination and antiproliferative evaluation of novel benzazoyl benzamides; Heterocycles, 68 (2006), 11; 2285-2299.

12. **I. Čaleta**, M. Grdiša, D. Mrvoš-Sermek, *et. all.*; Synthesis, crystal structure and antiproliferative evaluation of some new substituted benzothiazoles and styrylbenzothiazoles; Il Farmaco (Pavia), 59 (2004), 4; 297-305; doi: 10.1016/j.farmac.2004.01.008

13. **I. Čaleta**, M. Cetina, A. Hergold-Brundić, *et. all.*; Synthesis and crystal structure determination of 6-(N-isopropyl)amidino-2-methylbenzothiazole hydrochloride monohydrate and 2-(amino-6-(N-isopropyl)amidinobenzothiazole hydrochloride; Structural chemistry, 14 (2003), 6; 587-595; doi: 10.1023/B:STUC.0000007570.93128.c2

14. H. Vančik, V. Šimunić-Mežnarić, **I. Čaleta**, *et. all.*; Solid State Photochromism and Thermochromism in Nitroso Monomer-Dimer Equilibrium; The journal of physical chemistry. B, Condensed matter, materials, surfaces, interfaces & biophysical, 106 (2002), 7; 1576-1580.

#### [Projects](#)

#### [Memberships](#)

#### [Other Relevant Information](#)