Curriculum vitae - Wim F.A. Steelant, PhD

1. Personal statement

My objective is a position where I can fully deploy my leadership skills serving the best interests of the University, at the undergraduate, graduate and professional levels, to further enhance academic excellence with all the current challenges and fast-paced changes in higher education. I strongly believe that my background and experience gained in higher education as a faculty member, chair of the Department of Chemistry at New Mexico Tech, Science Dean, and Vice President for Research at St. Thomas University, Dean of STEM at Youngstown State University, and Associate Provost for Workforce Education and Innovation with experience in 4 different countries and 4 different states, will allow me to be successful as Provost and Vice President for Academic and Student Affairs at New Mexico Tech.

2. Education

Post-Doctoral, Pathobiology, **University of Washington, Seattle, USA, 2000 - 2002**

Doctor of Philosophy, Biomedicine/Biochemistry, **University of Amsterdam**, **The Netherlands, 2000**

Master of Science, Chemical Engineering, **West-Brabant College**, **The Netherlands, 1993**

Bachelor of Science, Chemistry, **St. Lieven College, Ghent, Belgium, 1992**

High School Degree, Sciences, **St. Joseph Institute, Jean Baptiste De La Salle, Kortrijk, Belgium, 1987**

3. Work experience

3.1 Youngstown State University (YSU), Youngstown, OH (2016 - present)

College of Science, Technology, Engineering and Mathematics (STEM)

- **Associate Provost** for Workforce, Education and Innovation, **2024 – present**
- **Dean** of STEM, **2016 – present**
- **Professor** of Chemistry (**Tenured**), **2016 - present**

3.2 St. Thomas University (STU), Miami Gardens, FL (2011 - 2015)

School of Science, Technology and Engineering Management

- **(Founding) Vice President** for Research, **2014 - 2015**
- **(Founding) Dean** of the Nursing Program, **2014 - 2015**
- **Compliance Officer** Federal Grants, **2014 - 2015**

- **Associate Compliance Officer** Federal Grants, **2013 - 2014**
- **(Founding) Dean** of Science, **2011 - 2015**
- **Associate Professor** of Chemistry, **2011 - 2015**

3.3 New Mexico Institute of Mining and Technology (NMT), Socorro NM (2002 - 2011)

Department of Chemistry

- **Chair** of the Department of Chemistry, **2008 - 2011**
- **Associate Professor** of Chemistry (**Tenured**), **2008 - 2011**
- **Assistant Professor** of Chemistry, **2002 - 2008**

4. Leadership experience

4.1 Associate Provost for Workforce Education and Innovation at Youngstown State University

As Associate Provost (Jan 2024 - present), I report directly to the Provost and Chief Academic Officer. The charges for this position are, but not limited to:

- Provide strategic direction and oversight for all programs and initiatives. Ensure programs align with the organization's strategic goals and objectives. Evaluate program effectiveness and enacts changes for improvement.
- Oversee the development and implementation of strategies to ensure the financial sustainability
- Oversee the development and administration of competitive federal, state, local, and private grant proposals. Ensure compliance with sponsor requirements, reporting obligations, budget management, and performance metrics.
- Oversee contract development, pricing strategies, and service agreements for workforce training, technical services, and other externally funded initiatives.
- Oversee annual revenue projections and monitor financial performance across multiple funding sources to ensure operational sustainability.
- Oversee and direct collaborations with regional economic development organizations, employers, workforce boards, and government agencies to identify workforce needs, develop innovative training solutions, and support regional economic competitiveness.
- Report quarterly to the Board of Trustees of Youngstown State University on the progress of the of the self-sustaining workforce, education and innovation unit

4.2 Dean of Science, Technology, Engineering and Mathematics at Youngstown State University

As Dean (2016 - present), I report directly to the Provost and Chief Academic Officer. The charges for this position are, but not limited to:

- Direct and implement educational initiatives in the STEM College
- Increase community involvement, form partnerships and actively represent the STEM College to industries both locally and nationally to enhance scholarship and cooperative endeavors
- Work with faculty and chairs to develop programs/curricula that are attractive to potential students and thus enhance recruitment to the University, including international recruitment
- Oversee and support academic advisement in the STEM College and promote strategies and efforts that result in increased enrollment and retention
- Develop and promote innovative interdisciplinary undergraduate and graduate programs/curricula that strengthen programs across the STEM College disciplines
- Strategically prepare and authorize budget and resource allocation to most effectively serve academic Departments and students within the STEM College
- Work with the YSU Foundation to access and cultivate donors for the STEM College
- Represent and serve as an ambassador for the STEM College and the University at relevant events
- Make final recommendations to the Provost on faculty hiring, promotion, tenure, etc.
- In consultation with faculty, promote collaborative and creative teaching/learning environments and facilitate the use of new technologies in STEM classrooms and laboratories
- Oversee program review and HLC and professional accreditation for the programs within the STEM College (ABET, ACS,…)
- Develop policies for use of Course Fee and College Fee revenue that address short and long-term needs
- Place emphasis on expanding scholarship and research funding in the STEM College through external grants, development of intellectual property/patents, and exploration of global economic areas to include technology and manufacturing, and in support of scholarly activities, promote coordination with the School of Graduate studies and the Office of Research
- Develop long-range strategic planning for the STEM College consistent with the University's mission and strategic initiatives
- Work cooperatively with faculty, chairs, and administration to achieve the goals of the College and University in a spirit of shared governance
- Review governance documents and work with departments and programs to implement the YSU-OEA, ACE, and APAS union bargaining agreements

- Effectively communicate with students, faculty, staff and other stakeholders
- Demonstrate and provide exemplary leadership in all academic matters

4.3 Chemistry Department Chair at New Mexico Tech (Hispanic Serving Institution [HSI])

As Chair (2008 - 2011) of the Chemistry Department, I reported directly to the Vice President for Academic Affairs. The charges for this position were, but not limited to:

- Improve overall teaching quality and scholarship
- Coordinate Departmental meetings discussing budget, teaching assignments, policies and faculty activities
- Serve as a mentor for faculty and staff
- Serve as a mentor for students (graduate and undergraduate)
- Advise undergraduate majors and guide master and doctoral students
- Responsible for the annual faculty and staff evaluation reports
- Responsible for the annual Departmental progress report
- Responsible for program and course assessment
- Academic assessment and course/program learning outcomes
- Develop a 5-year strategic plan with emphasis on scholarship and student success
- Maintain accreditation: Higher Learning Commission (HLC) and American Chemical Society accreditation (ACS)

5. Leadership accomplishments

5.1 Budget management

- Successfully managed academic Departmental, School or College budgets
- Successfully managed research budgets as a principal investigator, program director or at the university level in my role as Vice President of Research
- Substantial experience with financial cutbacks and strategic investments at the Departmental, School or College level

5.2 Infrastructural reorganizations

- Guided remodeling and reassignment of university facilities (labs, classrooms, offices, …)
- Guided safety upgrades and ADA compliances in all teaching, and research lab spaces

5.3 Educational reorganizations

- **Student success (retention, graduation, readiness for job placement or continued education**

- Created a successful remedial chemistry course for students, unprepared for general chemistry courses at the University level in order to improve student retention and preparedness. The performance of these students was assessed by their scores on standardized exams
- Upgraded instructional technology for the undergraduate instructional labs by integrating informatics, mathematics, physics and chemistry into the laboratory experiments
- Developed the undergraduate research program by ensuring direct involvement of undergraduates in research projects and by making students present research data national and international as posters or as a lecture/platform presentation to enhance student success (retention, graduation, job placement or continued education)
- Successfully converted teaching labs into research-oriented labs, leading to peer-reviewed papers with undergraduate student authors
- Successfully implemented early-intervention software enabling close student progress follow-up
- Maximized the advising and tutoring resources
- Successfully created biochemical/biomedical research and instructional labs. This resulted in over 20 peer-reviewed publications since 2006 with numerous undergraduate students as co-authors
- Successfully secured grants allowing all science students to receive their textbook for free

- **Faculty success**

- Successfully organized on-campus grant-writing workshops for faculty
- Served as a mentor for tenure-track faculty
- Successfully increased faculty (and staff) retention rates by enhancing career satisfaction
- Stimulated and financially supported faculty (and staff) to attend workshops and conferences to expand their skill development such as, but not limited to: interpersonal skills, teaching skills, use of technology, accreditation updates, scholarship, and service
- Successfully negotiated summer research stipends for all faculty involved in undergraduate research during summer terms
- Successfully maintain(ed) an open-door policy and serve(d) as a leader in the spirit of shared governance

- **Academic programs and scholarships**

- Guided a pre-med, pre-vet, pre-pharm program development
- Created the science graduate program at St. Thomas University with 6 new MS programs
- Founder of a Nursing program (undergraduate and graduate), with accreditation

- Improved the quantity and the quality of graduate courses offered by targeted faculty hires
- Successfully moved multiple programs from traditional to online/distance education, such as MS Nursing, MS Big Data Analytics, MS Science teaching (continued education for science teachers)
- Successfully worked with companies such as 'Hot Chalk' to tackle the challenges of moving to online course delivery
- Successfully collaborated with start-up companies
- Generated over $10 million in educational and research funds
- Reorganized the graduate requirements for MS and PhD programs
- Created and implemented a new graduate student recruitment strategy
- Responsible for the creation of 5 research institutes
- Successfully created and completed interdisciplinary research projects amongst Departments, Schools, Colleges, industry and community partners

6. Teaching Experience

6.1 Teaching at Youngstown State University (2016 - present)

- CHEM1501: An Introduction to Chemistry
- STEM4890: Internship

6.2 Teaching at St. Thomas University (2011 - 2015)

- CHEM100N: Introduction to Chemistry for Nurses
- CHEM100: Introduction to Chemistry
- CHEM101: General Chemistry I

6.3 Teaching at New Mexico Tech (2002 - 2011)

- CHEM103: Intermediate Chemistry 1
- CHEM104: Intermediate Chemistry 2

  CHEM103 & 104 were offered for students that either lacked the prerequisites of mathematics or had insufficient high school chemistry to enroll in the regular General Chemistry course 121.
- CHEM121: General Chemistry I
- CHEM122: General Chemistry II
- CHEM441: Biochemistry 1
- CHEM442: Biochemistry 2

- CHEM521: Advanced Biochemistry 1

  CHEM521 is a graduate level course that covers specialized topics on proteins, lipids and carbohydrates with medical emphasis.
- CHEM441L: Biochemistry lab 1
- CHEM442L: Biochemistry lab 2
- ST524: Survey of Chemistry
- ST589: Survey of Biochemistry

  ST524 and ST589 are graduate level courses that were developed under the 'Master of Science' teaching program for teachers from kindergarten through the 12th grade. The main objective of this program is to improve the quality of science teaching by helping the teachers to transfer what they learned in this program to their classroom.
- CHEM389: Chemical and Biological Warfare

  CHEM389 is a course that has been developed for the 64th Weapons of Mass Destruction Civil Support Team. It is an awareness course on everything that covers Chemical and Biological warfare.

7. Research experience

7.1 Academic fellowships

- Fellowship of University of Washington, USA, 2000
- Fellowship from the Belgian Federation Against Cancer, Belgium, 2000
- Fellowship of Ghent University, Belgium, 2000
- Fellowship of Ghent University, Belgium, 1999
- Fellowship of the National Institute of Scientific Research, France, 1998
- Fellowship of the Research Organization Against Cancer, France, 1997
- Scientific prize of the Flemish League Against Cancer, Belgium, 1996
- Scientific prize of the Flemish League Against Cancer, Belgium, 1995

7.2 Academic honors and awards

- Leadership Award, YSU STEM College, 2026
- Honorable member, The American Society of Leadership and Success, USA, 2013
- Excellence in Teaching Award, The American Society of Leadership and Success, USA, 2011
- Innovative Teaching Award, New Mexico Tech, USA, 2007

The Innovative Teaching Award was obtained for the Biochemistry 2 lab (CHEM442L) course development. The existing course curriculum was converted to a real research lab. The students were taught how to investigate potential anticancer activity of medicinal plants that are being used the students' family. The interest in this course was overwhelming and has resulted in numerous undergraduate student authorships on peer-reviewed papers.

7.3 Funding

Listed below are some of the successfully completed and ongoing projects of which I was/am the principal investigator (PI) or project director (PD).

1. ARC-OMEGA (Federal) Steelant (PD/PI) September 2026 Award notification
Appalachian Regional Commission Budget: $500,000 ONGOING
Description: The goal is to acquire the needed equipment to further expand the associate degree in Mechanical Engineering Technology at our new Steubenville Ohio location.

2. GM Community Support Funds Steelant (PD/PI) August 2024 - present
State funding Budget: $5,000,000 ONGOING
***Description: The goal is to provide* Community Workforce Development Services (regional recruitment, curriculum development, training and related activities)**

3. Private funding Steelant (PD/PI) August 2019 - present
Watanakunakorn endowment Budget: $1,500,000 ONGOING
Description: The goal is to engage undergraduate students in biomedical research during the summer.

4. Private funding Steelant (PD/PI) August 2020 - September 2026
Williamson Exploration Budget: $85,000 Completed
Description: The goal is to engage undergraduate students in during the summer.

5. Private Funding Steelant (PD/PI) August 2020 - September 2022
Simon Estate Donation Budget: $467,000 ONGOING
Description: The goal is to remodel the existing STEM greenhouse and use renewable energy to operate it.

6. RAPIDS 4 Steelant (PD/PI) April 2020 - Current
Ohio Dep of Higher Ed Budget: $716,666 ONGOING
Description: ***The goal is to invest in equipment that will be used to support a spectrum of training, which represents current urgent workforce needs, next-generation skills that are evolving the manufacturing***

enterprise, and next-generation skills that are poised to disruptively change not only manufacturing, but huge segments of the economy.

7. RAPIDS 3	Steelant (PD/PI)	January 2019 - Current
Ohio Dep of Higher Ed	Budget: $716,666	ONGOING

Description: The goal is to invest in equipment that will be used to support a spectrum of training, which represents current urgent workforce needs, next-generation skills that are evolving the manufacturing enterprise, and next-generation skills that are poised to disruptively change not only manufacturing, but huge segments of the economy.

8. Private Funding	Steelant (PD/PI)	April 2019 - Current
Marjorie Hartman Foundation	Budget: $100,000	ONGOING

Description: The goal is to create an endowment that will generate scholarships for pre-veterinary students at Youngstown State University College of STEM.

9. Private Funding	Steelant (PD/PI)	April 2018 - Current
Medical Mutual Endowment	Budget: $1,000,000	ONGOING

Description: The goal is to create an endowment for a professorship in Actuarial Sciences.

10. Private funding	Steelant (PD/PI)	January 2010 - December 2015
Domingo Moreira Fund	Budget: $130,000	COMPLETED

Description: The goal was to further develop existing research & teaching programs that involved hands-on training of undergraduate students.

11. 2011-38422-30804	Steelant (PD)	September 2011 - September 2015
USDA-NIFA-HSI	Budget: $562,982	COMPLETED

Description: The goals were to i) increase Hispanic diversity within USDA workforce by at least 40 graduates; ii) building a national capacity for solving food and agricultural problems using biology approaches, and iii) integrate digital and communication technology.

12. Private funding	Steelant (PD/PI)	July 2014 - June 2015
Blue Cross/Blue Shield	Budget: $75,000	COMPLETED

Description: BS in Nursing program development. The funding was to be used to further expand the nursing simulation laboratory.

13. Private funding	Steelant (PD/PI)	December 2013 - December 2014
Blue Cross/Blue Shield	Budget: $75,000	COMPLETED

Description: Biomedical research program development. The goal was to further develop a cancer research facility at St. Thomas University in Florida.

14. Private funding | Steelant (PD/PI) | May 2013 - October 2014

Hearst foundation | Budget: $75,000 | COMPLETED

Description: Undergraduate retention project. The goal was to get 245 science majors involved in hands-on research on campus or via internships to improve the retention and completion rate of undergraduate students enrolled in St. Thomas University School of Science.

15. Private funding | Steelant (PD/PI) | July 2012 - December 2013

Blue Cross/Blue Shield | Budget: $100,000 | COMPLETED

Description: Biomedical research program development. The goal was to set up a cancer research facility at St. Thomas University in Florida.

16. Private funding | Steelant (PD/PI) | November 2012 - October 2013

Kennedy foundation | Budget: $20,000 | COMPLETED

Description: Undergraduate retention project. The goal was to get 245 science majors involved in hands-on research on campus or via internships to improve the retention and completion rate of undergraduate students enrolled in St. Thomas University School of Science.

17. 11-DG-11330101-112 | Steelant (PD/PI) | October 2011 - October 2013

USDA-FS | Budget: $50,000 | COMPLETED

Description: Screening of Ardesia crenata and Pyrus calleryana for potential anticancer activity. The ultimate goal of this work was to find new naturally occurring active components against cancer.

18. Private funding | Steelant (PD/PI) | November 2012 - October 2013

Blue Cross/Blue Shield | Budget: $70,000 | COMPLETED

Description: Biomedical research program development. The goal was to further develop a cancer research facility at St. Thomas University in Florida.

19. Private funding | Steelant (PD/PI) | October 2011 - September 2013

Blue Cross/Blue Shield | Budget: $50,000 | COMPLETED

Description: Biomedical research program development. The goal was to set up a cancer research facility at St. Thomas University in Florida.

20. P116Z100221 | Steelant (PD) | January 2011 - December 2012

DOE-FIPSE | Budget: $300,000 | COMPLETED

Description: St. Thomas University science teacher-leader initiative. The goal of St. Thomas University Science Teacher-Leader Initiative was to recruit and work with 30 4th & 5th grade teachers from 15 elementary schools for development and professional service as elementary science education teacher-leaders.

21. Private funding | Steelant (PD/PI) | January 2012 - December 2012

H. Kramer mem. Fund | Budget: $20,000 | COMPLETED

Description: Development of a computer modeling lab.

22. P120A090044 | Steelant (PD) | October 2011 - September 2012

DE-MSEIP | Budget: $332,665 | COMPLETED

Description: The goals were to i) improve the minority participation in Science and Engineering; ii) hire more faculty, gain equipment and student services support, and: iii) recruit and advise underrepresented minorities and women for science and engineering careers.

23. Department of Veteran Services, NM | Steelant (PI) | 2008 - 2011

DOVS-NM | Budget: $1,100.000 | COMPLETED

Description: Evaluation of a non-invasive early lung cancer detection method.

24. 1R15 AT002888-01A2 | Steelant (PI) | March 2008 - February 2011

NIH-NCCAM | Budget: $230,000 | COMPLETED

Description: Effect of Medicinal plants used by Native American Tribes on Cancer. The ultimate goal of this work was to find new naturally occurring active components against cancer.

25. RR-16480 | Steelant (PI) | July 2004 - 31 May 2009

NIH-INBRE | Budget: $580,000 | COMPLETED

Description: Glycosphingolipid enriched microdomains in cancer cell invasion. The ultimate goal of this study was to investigate biological processes involving Glycosphingolipid Enriched Microdomains (GEM) and their implication in diseases, such as cancer.

7.4 Peer-reviewed publications

1. Steelant W.F.A., Bruyneel E.A., Mareel M.M, Van den Eeckhout E. Capillary gas chromatography of hexadecylphosphocholine in Caco-2T cells and cell culture media, Anal. Biochem., 227, 246-250, **1995**.

2. Steelant W.F.A., Recchi M.-A., Noe V.T., Boilly-Marer Y., Bruyneel E.A., Verbert A., Mareel M.M., Delannoy Ph. Sialylation of E-cadherin does not change the spontaneous or ET-18-OMe-mediated aggregation of human breast cancer MCF-7 cells, Clin. Exp. Metast., 17, 245-253, **1999**.

3. Harduin-Lepers A., Stokes D.C., **Steelant W.F.**, Samyn-Petit B., Krzewinski-Recchi M.-A., Vallejo-Ruiz V., Zanetta J.-P., Auge C., Delannoy Ph. Cloning, expression and gene organization of a human NeuAc5 alpha 2-3-Gal beta 1-3GalNAc alpha 2,6-sialyltransferase: hST6GalNAcIV, Biochem J., 15, 37-48, **2000**.

4. Samyn-petit B., Krzewinski-Recchi M.-A., **Steelant W.F.**, Delannoy Ph., Harduin-Lepers A. Protein, nucleotide molecular cloning and functional expression of human ST6GalNAc II. Molecular expression in various human cultured cells, Biochem Biophys Acta, 2, 201-211, **2000**.

5. Auge C., Malleron A., Tahrat H., Marc A., Goergen J.-L., Cerutti M., **Steelant W.F.A.**, Delannoy Ph., Lubineau A. Outstanding stability of immobilized recombinant alpha 1-3/4-fucosyltransferases exploited in the synthesis of lewis a lewis x trisacchararides, Chem. Comm., 2017-2018, **2000**.

6. Steelant W.F.A., Noe V., Goeman J., Phillipe J., Oomen L.C.J.M., Hilkens J., Recchi M.-A., Huet G., Delannoy Ph., Bruyneel E.A., Mareel M.M. The alkyllysophospholipid 1-O-octadecyl-2-O-methyl- glycerophosphocholine induces invasion through episialin-mediated neutralization of E-cadherin in human mammary MCF-7/AZ cells in vitro, Int. J. Cancer, 92, 527-536, **2001**.

7. Gouyer V., Leteutre E., Delmotte P., **Steelant W.F.**, Krzewinski-Recchi M.-A., Zanetta J.-P., Lesufleur T., Trugnan G., Delannoy Ph., Huet G. Differential effect of GalNAc-O-bn on intracellular trafficking in enterocytic HT-29 and Caco-2 cells: correlation with the glycosyltransferase expression pattern, J. Cell Sci., 114, 455-471, **2001**.

8. Noe V., Fingleton B., Jacobs K., Crawford H.C., Vermeulen S., **Steelant W.**, Bruyneel E., Matrisian L.M., Mareel M. Release of an invasion promotor E-cadherin fragment by matrilysin and stromelysin-1, J. Cell Sci., 114, 111-118, **2001**.

9. Kawakami Y., Kawakami K., **Steelant W.F.A.**, Ono M., Beak R.C., Handa K., Withers D.A., Hakomori S. Tetraspanin CD9 is a proteolipid, and its interaction with alpha3 integrin in microdomain is promoted by GM3 ganglioside, leading to inhibition of laminin-5-dependent cell motility, J. Biol. Chem., 37, 34349- 34358, **2002**.

10. Steelant W.F.A., Kawakami Y., Ito A., Handa K., Bruyneel E.A., Mareel M.M., Hakomori S. Monosialyl- Gb5 organized with cSrc and FAK in GEM of human breast carcinoma MCF-7 cells defines their invasive properties, FEBS, 531, 93-98, **2002**.

11. Daniels A.L., Van slambrouck S., Lee R.K., Arguello T.S., Browning J., Pullin M.J., Kornienko A., **Steelant W.F.** Effects of extracts from two Native American plants on proliferation of human breast and colon cancer cell lines in vitro. Oncol Rep., 15, 1327-1331, **2006**.

12. Van slambrouck S., **Steelant W.F.** Clustering of monosialyl-Gb5 initiates downstream signalling events leading to invasion of MCF-7 breast cancer cells. Biochem J., 401, 689-699, **2007**.

13. Magedov I.V., Manpadi M., Rozhkova E., Przheval'skii N.M., Rogelj S., Shors S.T., **Steelant W.F.**, Van slambrouck S., Kornienko A. Structural simplification of bioactive natural products with multicomponent synthesis: dihydropyridopyrazole analogues of podophyllotoxin. Bioorg Med Chem Lett., 17, 1381-1385, **2007**.

14. Van slambrouck S., **Steelant W.F.A.**, Lopez M., Recchi M.A., Boilly-Marer Y., Bruyneel E.A., Delannoy P., Verbert A., Van den Eeckhout E.G., Deforce D. Edelfosine protects precultured heart fragments against the invasion of malignant cells through altered sialylation. Oncol Rep., 433-439, **2007**.

15. Zhang P., **Steelant W.**, Kumar M., Scholfield M. Versatile photosensitizers for photodynamic therapy at infrared excitation. J Am Chem Soc., 129, 4526-4527, **2007**.

16. Van slambrouck S., Daniels A.L., Hooten C.J., Brock S.L., Jenkins A.R., Ogasawara M.A., Baker J.M., Adkins G., Elias E.M., Agustin V.J., Constantine S.R., Pullin M.J., Shors S.T., Kornienko A., **Steelant W.F.A.** Effects of crude aqueous medicinal plant extracts on growth and invasion of breast cancer cells. Oncol Rep., 17, 1487-1493, **2007**.

17. Magedov I.V., Manpadi M., Van slambrouck S., **Steelant W.F.A.**, Rozhkova E., Przheval'skii N.M., Rogelj S., Kornienko A. Discovery and investigation of antiproliferative and apoptosis-inducing properties of new heterocyclic podophyllotoxin analogues accessible by a one-step multicomponent synthesis.
J Med Chem, 5183-5192, **2007**.

18. Van Slambrouck S., Grijelmo C., De Wever O., Bruyneel E., Emami S., Gespach C., **Steelant W.** Activation of the FAK-src molecular scaffolds and p130Cas-JNK signaling cascades by 1-integrins during colon cancer cell invasion. Int J Oncol., 1501-1508, **2007**.

19. Manpadi M., Uglinskii PY., Rastogi S.K., Cotter K.M., Wong Y.S., Anderson L.A., Ortega A.J., Van slambrouck S., **Steelant W.F.**, Rogelj S., Tongwa P., Antipin M.Y., Magedov I.V., Kornienko A. Three- component synthesis and anticancer evaluation of polycyclic indenopyridines lead to the discovery of a novel indenoheterocycle with potent apoptosis inducing properties. Org Biomol Chem., 3865-3872, **2007**.

20. Canonici A., **Steelant W.**, Rigot V., Khomich-Baud A., Boutaghou-Cherid H., Bruyneel E., Van roy F., Garrouste F., Pommier G., Andre F. Insulin-like growth factor-I receptor, E-Cadherin and alpha aV integrin form a dynamic complex under the control of alpha catenin. Int J Canc., 572-582, **2008**.

21. Van slambrouck S., Hilkens J., **Steelant W.F.A.** Ether lipid 1-O-octadecyl-2-O-methyl-glycero- phosphocholine inhibits cell-cell adhesion through translocation and clustering of E-cadherin and episialin in membrane microdomains. Oncol Rep., 123-128, **2008**.

22. Magedov IV., Luchetti G., Evdokimov N.M., Manpadi M., **Steelant W.F.**, Van slambrouck S., Tongwa P., Antipin M.Y., Kornienko A. Novel Three-Component Synthesis and Antiproliferative properties of diversely functionalized pyrrolines. Bioorg Med Chem Lett., 18, 1392-1396, **2008**.

23. Sigstedt S., Hooten C.J., Callewaert M., Jenkins A.R., Romero A., Pullin M.J., Kornienko A., Lowrey T.K., Van slambrouck S., **Steelant W.F.A.** Evaluation of aqueous extracts of Taraxacum officinale on growth and invasion of breast and prostate cancer cells. Int J Oncol., 32, 1085-1090, **2008**.

24. Evidente A., Kireev S.A., Jenkins A.R., Romero A.T., Van slambrouck S., **Steelant W.F.A.**, Kornienko A. Biological Evaluation of Structurally Diverse Amaryllidaceae Alkaloids and their Synthetic Derivatives: Discovery of Novel Leads for Anticancer Drug Design. Planta Med., 75, 501-507, **2009**.

25. Van slambrouck S., Jenkins A.R., Romero A., **Steelant, W.F.A.** Reorganization of the integrin alpha2 subunit controls cell adhesion and cancer cell invasion in prostate cancer. Int. J. Oncol., 34, 1717-1726, **2009**.

26. Van slambrouck S., Hilkens J., Bisoffi M., **Steelant W.F.** AsialoGM1 and integrin alpha2beta1 mediate prostate cancer progression. Int. J. Oncol., 35, 693-699, **2009**.

27. Janser R.F., Meka R.K., Bryant Z.E., Adogla E.A., Vogel E.K., Wharton J.L., Tiley C.M., Kaminski C.N., Ferrey S.L., Van slambrouck S., **Steelant W.F.**, Janser I. Ethacrynic acid analogues lacking the alpha,beta-unsaturated carbonyl unit: potential anti-metastatic drugs. Bioorg. Med. Chem. Lett., 1848-1850, **2010**.

28. Kaminski C.N., Ferrey S.L., Lowrey T., Guerra L., Van slambrouck S., **Steelant W.F.** In vitro anticancer activity of Anemopsis californica. Oncol Lett, 1, 711-717, **2010**.

29. Bryant Z.E., Janser R.F.J., Jabarkhail M., Candelaria-Lyons M.S., Romero B.B., Van slambrouck S., **Steelant W.F.A.**, Janser I. Inhibitory effects of Ethacrynic acid analogues lacking the alpha, beta- unsaturated carbonyl unit and para-acylated phenols on human cancer cells. Bioorg. Med. Chem. Lett., 21, 912-915, **2011**.

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I.V. Structural Simplification of Bioactive Natural Products with Multicomponent Synthesis. 3. Fused Uracil-Containing Heterocycles as Novel Topoisomerase-Targeting Agents. J. Med. Chem., 2012-2021, **2011**.

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8. Service

During my academic career, I serve(d) as a member or chair on numerous committees, taskforces, advisory councils, accreditation bodies, organizing committees, master or PhD thesis committees, and gave numerous talks at national or international events. Examples of my service include:

- **Reviewer for international peer-reviewed journals**
- Journal of Fluorescence, **2007 - present**
- Journal of Life Sciences, **2006 - present**
- Biochimica Biophysica Acta, General Subjects, **2008 - present**
- Public Library of Science Journal, **2010 - present**
- International Journal of Oncology, **2008 - present**
- Oncology Letters, **2008 - present**
- Molecular Medicine Reports, **2008 - present**
- Experimental and Therapeutic Medicine, **2014 - present**
- Oncology Reports, **2010 - present**

- **Academic accreditation and compliance**
- Chair of the Southern Association on Colleges and Schools – Committee on Colleges (SACS-COC) university accreditation task force (St. Thomas), **2011 - 2015**
- Chair-elect, American Chemical Society (ACS), Central New Mexico Chapter, **2006 - 2007**
- Chair, American Chemical Society (ACS), Central New Mexico Chapter, **2007 - 2008**
- Chair, Institutional Animal Care and Use Committee (IACUC) (STU), **2011 - 2015**
- Grants compliance officer (STU), **2014 - 2015**
- Spearheaded the Nursing program accreditation (Florida Board of Nursing) for STU, **2015**

- **Science and Engineering fairs**
- Lake to River science fair (YSU), **2015 - present**
- Organized and judged Miami Gardens Elementary Science and Engineering Fair (STU), **2011 - 2015**

- Organized and judged the Summer Research Institute (SRI) symposium (STU), **2011 - 2015**
- Judge in category Medicine, New Mexico Science and Engineering Fair, **2003**; and Chair and judge in category Medicine, **2005**
- American Chemical Society special awards judge, International Science and Engineering Fair (ISEF), **2007**

➢ Committee work

- Member of the Health Care Advisory Committee (HCAC)(YSU), **2016 - present**
- Member of the Academic Senate Technology Committee (ASCT)(YSU), **2016 - present**
- Served on a promotion appeal committee (YSU), **2018**
- Member of the Provost Executive Committee (STU), **2011 - 2015**
- Member of the Online Learning Task Force (OLTF)(STU), **2011 - 2015**
- Member of the Provost Grant Directors Council (STU), **2011 - 2015**
- Member of the Academic Policy Council (APC)(STU), **2011 - 2015**
- Member of the Environmental Health & Safety Committee, STU, **2011 - 2015**
- Member of the faculty tenure-track committee NMT, **2009 - 2011**
- Member of the student retention task force NMT, **2007 - 2011**
- Chair of the organizing committee for the annual chemistry fall symposium NMT, **2006 - 2011**

9. Other

9.1 Languages

- Fluent in Flemish, Dutch, English, French, minor in German

9.2 Immigration status

- American Citizen (Belgian-American)